

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

8-Hydroxy-2'-Deoxyguanosine

Common oxidized form of deoxyguanosine in which C-8 position of guanine base has a carbonyl group.

Tree locations:

Deoxyguanosine D03.633.100.759.590.454.240.500
D13.570.230.360.500
D13.570.583.454.240.500

Accidental Injuries

Injuries resulting from events or circumstances that are unforeseen, unplanned, unanticipated, and without premeditation.

Tree locations:

Wounds and Injuries C26.040

Actinoplanes

A genus of zoospore-forming bacteria in the Micromonosporaceae family that is a source of many clinically important natural products.

Tree locations:

Micromonosporaceae B03.300.390.400.500.250
B03.510.024.049.500.250
B03.510.415.400.500.250
B03.510.460.410.500.250

Acyclic Monoterpenes

Linear compounds that contain a single monoterpene unit.

Tree locations:

Monoterpenes D02.455.849.575.125

Ado-Trastuzumab Emtansine

Immunotoxin that consists of humanized monoclonal anti-HER2 antibody TRASTUZUMAB covalently linked to anti-microtubule agent MAYTANSINOID DMI for treatment of metastatic breast cancer in patients who previously received trastuzumab and a TAXANES, separately or in combination.

Tree locations:

Maytansine D02.540.505.495.500
D04.345.295.500.500
Trastuzumab D12.776.124.486.485.114.224.060.875.500
D12.776.124.790.651.114.224.060.875.500
D12.776.377.715.548.114.224.200.875.500

Aldehyde Dehydrogenase 1

A member of the Aldehyde Dehydrogenase family of enzymes involved in the synthesis of acetate from ethanol. It is also a tumor marker.

Tree locations:

Aldehyde Dehydrogenase D08.811.682.657.163.249.188

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Allergoids

Extracts of allergens, or purified allergens that have been chemically modified to reduce their ability to induce IGE-MEDIATED HYPERSENSITIVITY (allergenicity) while increasing their ability to induce IMMUNE TOLERANCE.

FX: Desensitization, Immunologic

Tree locations:

Allergens D23.050.063.500

Allylbenzene Derivatives

Compounds that include a single 1-phenyl-2-propene moiety in their structure.

FX: Stilbenes

Tree locations:

Allyl Compounds D02.455.326.271.122.180

Benzene Derivatives D02.455.426.559.389.012

Alouatta caraya

A species of the genus ALOUATTA, family ATELIDAE, inhabiting the forests of South America. Although sometimes known as black howler only adult males have black hair and adult females and juveniles are gold in color. Closely related A. pigra in Central America and A. nigerrima in the Amazon are also called black howlers.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Alouatta B01.050.150.900.649.313.988.400.600.075.050.075.500

Ambient Intelligence

An emerging paradigm in which people are empowered through intelligent (digital) tools embedded in the surrounding environment. These tools proactively support human existence by being sensitive, adaptive, and responsive to the needs, habits, gestures, and emotions of individuals.

Tree locations:

User-Computer Interface L01.224.900.910.500

Animal Proteins, Dietary

DIETARY PROTEINS derived from ANIMALS.

AN: general or unspecified; prefer specifics

Tree locations:

Dietary Proteins D12.776.256.159

G07.203.300.428.159

J02.500.428.159

Anomalous Left Coronary Artery

Malformations of left CORONARY ARTERY where it is connected to the PULMONARY ARTERY instead of the AORTA.

Tree locations:

Coronary Vessel Anomalies C14.240.400.210.125

C14.280.400.210.125

C16.131.240.400.210.125

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Araucaria

A genus of evergreen conifer of the family Araucariaceae, order Pinales, that includes the monkey puzzle (*Araucaria Araucana*).

Tree locations:

Araucariaceae B01.650.940.800.575.912.625.500.500

Araucaria araucana

An evergreen tree commonly known as the monkey-puzzle tree. It grows to 1-1.5 m in diameter and 30-40 m in height, and is native to central and southern Chile, and western Argentina. *Araucaria araucana* is the hardiest among the conifers, and due to its longevity, is often described as a living fossil.

Tree locations:

Araucaria B01.650.940.800.575.912.625.500.500.250

Araucariaceae

A family of dioecious or monoecious evergreen trees belonging to the order Pinales, subclass Pinidae, with spirally arranged, narrow or broad leaves often with parallel veins.

Tree locations:

Pinales B01.650.940.800.575.912.625.500

Artificially Sweetened Beverages

Beverages sweetened with SWEETENING AGENTS that are synthetic or artificial as opposed to naturally-occurring. Examples of sweetening agents include ASPARTAME, sucralose, and saccharin.

Tree locations:

Beverages G07.203.100.200
J02.200.200

Asthma-Chronic Obstructive Pulmonary Disease Overlap Syndrome

Syndrome with clinical features of both ASTHMA and COPD.

Tree locations:

Asthma C08.127.108.688
C08.381.495.108.500
C08.674.095.688
Hypersensitivity C20.543.103
Pulmonary Disease, Chronic Obstructive C08.381.495.389.250

Ateles geoffroyi

A species in the genus ATELES, subfamily ATELINAE, comprising several Mesoamerican spider monkeys including Geoffroy's spider monkey (*Ateles geoffroyi geoffroyi*). Sometimes referred to as Central American spider monkey, it inhabits rainforest from Mexico to Colombia.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Atelinae B01.050.150.900.649.313.988.400.600.075.075.500

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Atomic Bomb Survivors

Persons who survived exposure to RADIATION due to ATOMIC BOMBS.

FX: Radioactive Fallout

FX: Radiation Injuries

Tree locations:

Survivors M01.860.325

Augmented Reality

Technology in which images of virtual objects and/or other digital information are superimposed over the real time view of the physical objects providing a composite view with guides for carrying out a task with or on the physical objects.

FX: Computer-Assisted Instruction

FX: Surgery, Computer-Assisted

Tree locations:

Computer Simulation L01.224.160.125

Data Display L01.296.055

Autoimmune Pancreatitis

Chronic pancreatitis associated with autoimmune diseases.

FX: Immunoglobulin G4-Related Disease

Tree locations:

Autoimmune Diseases C20.111.296

Pancreatitis, Chronic C06.689.750.830.500

Autophagic Cell Death

A major activation of the autophagic pathway, characterized by massive accumulation of AUTOPHAGOSOMES and CELL DEATH.

Tree locations:

Autophagy G04.011.500

Regulated Cell Death G04.146.954.053

Avoidant Restrictive Food Intake Disorder

An eating or feeding disturbance (e.g., apparent lack of interest in eating or food; avoidance based on the sensory characteristics of food; concern about aversive consequences of eating) as manifested by persistent failure to meet appropriate nutritional and/or energy needs associated with one (or more) of the following: significant weight loss (or failure to achieve expected weight gain or faltering growth in children); significant nutritional deficiency; dependence on enteral feeding or oral nutritional supplements; or marked interference with psychosocial functioning. (from DSM-V)

Tree locations:

Feeding and Eating Disorders F03.400.157

B-Cell Lymphoma 3 Protein

A member of the I kappa B family, B-cell lymphoma 3-encoded (bcl-3) protein is involved in the regulation of TRANSCRIPTIONAL ACTIVATION of NF-KAPPA B target genes.

Tree locations:

Proto-Oncogene Proteins D12.776.624.664.700.165

Transcription Factors D12.776.930.714

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Bacterial Outer Membrane

The outermost cell envelope of GRAM-NEGATIVE BACTERIA composed of PHOSPHOLIPIDS; LIPOPOLYSACCHARIDES (LPS), and BACTERIAL OUTER MEMBRANE PROTEINS. The bacterial outer membrane LPS demonstrates cytotoxicity (see LIPID A and BACTERIAL O ANTIGEN).

Tree locations:

Bacterial Structures A20.484
Cell Membrane A11.284.149.083

Bicyclic Monoterpenes

Monoterpenes containing two ring structures that are joined either by bridgehead carbon atoms or fused ring structure.

Tree locations:

Bridged Bicyclo Compounds D02.455.426.100.080.050
Monoterpenes D02.455.849.575.141

Bioaccumulation

An increase in the concentration of an exogenous substance in the tissues of organisms higher than surrounding ENVIRONMENT. Accumulation of such XENOBIOTICS at successively higher levels up the FOOD CHAIN is called biomagnification. Bioaccumulation of toxic chemicals (e.g., Lead and DDT) may result in CHEMICALLY-INDUCED DISORDERS.

FX: Chemically-Induced Disorders

Tree locations:

Absorption, Physiological G03.015.500.187
G03.787.024.500.187
G07.690.725.015.500.187

Biological Monitoring

Monitoring of the level of toxins, chemical pollutants, microbial contaminants, or other harmful substances in the bodies of living organisms, by DIAGNOSTIC IMAGING or by analyzing BLOOD; URINE; BREAST MILK; SALIVA, etc.

Tree locations:

Environmental Monitoring N06.850.460.350.080.125
N06.850.780.375.175

Biosolids

Wastewater SLUDGE treated by processes such as COMPOSTING, anaerobic digestion, aerobic digestion, alkaline treatment, and PASTEURIZATION to remove HAZARDOUS CHEMICALS and pathogens.

Tree locations:

Solid Waste D20.944.730.500

Birdshot Chorioretinopathy

A form of chorioretinitis characterized by multiple small, cream-colored LESIONS, symmetrically scattered mainly around the OPTIC DISK. These lesions are the most distinctive sign and often appear at the level of the RETINAL PIGMENT EPITHELIUM but, on occasion, suggest an even deeper infiltration and may ultimately lead to visual loss. An association with HLA-A29 antigen (see HLA-A ANTIGENS) has been observed in nearly all patients.

Tree locations:

Autoimmune Diseases C20.111.303
Chorioretinitis C11.768.773.348.500
C11.941.160.478.400.500
C11.941.879.780.900.300.318.500
White Dot Syndromes C11.941.879.780.900.650.250

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Blockchain

Decentralized transaction and data management technology providing security, anonymity and data integrity without any third party control of transactions. Related research is focused on improving aspects regarding privacy and security. (From PLoS One. 2016 Oct 3;11(10):e0163477)

Tree locations:

Computer Security L01.224.134.250
N04.452.910.200.250

Body Dissatisfaction

Person's negative thoughts about his or her own body. This includes judgements about size and shape, muscle tone and generally involves a discrepancy between one's own body type and an ideal body type. (Grogan, 2008)

Tree locations:

Body Image F01.752.747.792.110.500

Body Integrity Identity Disorder

Condition in which individuals desire the amputation of one or more healthy limbs or who desire a paralysis.

Tree locations:

Somatoform Disorders F03.875.225

Bone Marrow Failure Disorders

Inherited or acquired diseases characterized by insufficient and/or dysplastic blood cells.

Tree locations:

Bone Marrow Diseases C15.378.190.223

Brain Regeneration

Tree locations:

Regeneration G16.762.309

Brentuximab Vedotin

Immunoconjugate that consists of the chimeric monoclonal anti - CD30 ANTIGEN antibody cAC-10 conjugated to monomethyl auristatin E. It is used for the treatment of LYMPHOMA.

Tree locations:

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.438
D12.776.124.790.651.114.224.060.469
D12.776.377.715.548.114.224.200.469
Oligopeptides D12.644.456.217

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Broadly Neutralizing Antibodies

Neutralizing antibodies that reduce or abolish some biological activity of a soluble antigen or infectious agent (e.g., HIV) by targeting several epitopes.

Tree locations:

Antibodies, Neutralizing D12.776.124.486.485.114.244.500
D12.776.124.790.651.114.244.500
D12.776.377.715.548.114.244.500

Calicheamicins

Enediynes derived from the bacterium MICROMONOSPORA ECHINOSPORA that are used as antineoplastic antibiotics. They bind to DNA in both healthy and tumor cells, resulting in strand scission and cell death.

Tree locations:

Aminoglycosides D09.408.051.247
Enediynes D02.455.326.271.244.250
D02.455.326.397.680.500.500.250

Callicebus

A genus of the subfamily CALLICEBINAE, family PITHECIIDAE, generally comprising of five species: *C. barbarabrownae*; *C. coimbrai*; *C. melanochir*; *C. nigrifrons*; *C. personatus*. Titi monkeys inhabit lower levels of the forest in South America.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Pitheciidae B01.050.150.900.649.313.988.400.600.575.500

Cardio Ankle Vascular Index

An index of ARTERIAL STIFFNESS obtained from PULSE WAVE VELOCITY measurements between the heart and the ankle.

Tree locations:

Pulse Wave Analysis E01.370.370.680.500

Carotid-Femoral Pulse Wave Velocity

The transit time of an AORTIC PRESSURE wave between the COMMON CAROTID ARTERY and the COMMON FEMORAL ARTERY. It is a standard measure of ARTERIAL STIFFNESS.

Tree locations:

Pulse Wave Analysis E01.370.370.680.750

Cebus capucinus

A species of the genus CEBUS, family CEBIDAE, consisting of capuchin monkeys with white markings over most of frontal areas of the face, chest and upper arms.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Cebus B01.050.150.900.649.313.988.400.600.150.170.120.500

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Cell Encapsulation

The encapsulation of cells into semi-permeable microcapsules or MICROSPHERES that permits protection of encapsulated cells and allows passage of essential nutrients and release of a therapeutic product (e.g. INSULIN).

FX: Cells, Immobilized

Tree locations:

Tissue Engineering E05.481.500.311.500.500

Cell Line Authentication

Techniques used to characterize and confirm the identity of a CELL LINE. Characterization involves authentication to verify that it matches the original description of the cells and ensures that they are not cross-contaminated with another cell line. This is done to avoid attributing data incorrectly to the wrong cell line.

Tree locations:

Cell Culture Techniques E05.200.500.265.250
E05.242.223.250

Cerebellar Golgi Cells

Inhibitory interneurons embedded in the granular layer of the CEREBELLAR CORTEX.

Tree locations:

Cerebellar Cortex A08.186.211.132.810.428.200.212.150
Interneurons A08.675.358.200
A11.671.358.131

Chaperone-Mediated Autophagy

A selective type of autophagy in which a specific set of cytosolic proteins are moved across the membrane of the LYSOSOMES by protein translocation, rather than by invagination of the lysosomal membrane. The proteins that will be degraded by chaperone-mediated autophagy (CMA) contain a CMA-targeting motif that, when exposed, is recognized by the cytosolic chaperone HSPA8 (aka Hsc70) and cochaperones which deliver the protein to LAMP2A monomers on the lysosome cell surface for translocation via the LAMP2A translocation complex. CMA is distinguished from CHAPERONE-ASSISTED-SELECTIVE AUTOPHAGY - a type of selective MACROAUTOPHAGY.

Tree locations:

Autophagy G04.011.625

Cheminformatics

The use of computational and data retrieval techniques in understanding problems of chemistry. Cheminformatics strategies are useful in high throughput drug discovery.

Tree locations:

Chemistry H01.181.169
Informatics L01.313.062

Choroidal Effusions

Finding of fluid accumulation between the CHOROID and the SCLERA.

Tree locations:

Choroid Diseases C11.941.160.241
Eye Abnormalities C11.250.105

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Chromatin Immunoprecipitation Sequencing

A technique for identifying the BINDING SITES on nucleic acid sequences that are associated with binding proteins.

Tree locations:

Chromatin Immunoprecipitation E05.393.170.500
E05.478.605.160.500
High-Throughput Nucleotide Sequencing E05.393.760.319.250
Sequence Analysis, DNA E05.393.760.700.075

Chronic Disease Indicators

A set of surveillance indicators of disease developed by consensus among the CDC, the Council of State and Territorial Epidemiologists, and the National Association of Chronic Disease Directors. It enables public health professionals and policymakers to retrieve uniformly defined state and selected metropolitan-level data for CHRONIC DISEASES and RISK FACTORS that impact public health. (<https://www.cdc.gov/socialdeterminants/data/index.htm>)

Tree locations:

Health Status Indicators E05.318.308.980.438.475.411
N05.715.360.300.800.438.375.091
N06.850.520.308.980.438.475.023

Chronic Urticaria

Wheals and/or angioedema presented with daily symptoms lasting for more than 6 weeks. It may be classified into chronic spontaneous and chronic inducible urticaria depending on whether a specific trigger can be linked to the development of vascular reaction.

Tree locations:

Urticaria C17.800.862.945.533
C20.543.480.904.533

Citizen Science

Voluntary public participation in the scientific process, addressing real-world problems in ways that may include formulating research questions, conducting scientific experiments, collecting and analyzing data, interpreting results, making new discoveries, developing technologies and applications, for solving complex problems. (From <https://www.citizen science.gov/>)

FX: Decision Making

Tree locations:

Community Participation N03.540.245.360.150
Community-Based Participatory Research H01.770.644.193.500

Clastrum

A gray matter lamina located underneath the inner NEOCORTEX lateral to the PUTAMEN and medial to the INSULAR CORTEX. It is considered to be a part of the basal ganglia. Extensive claustral projections exist to most cortices and subcortical structures including the AMYGDALA, the CAUDATE NUCLEUS, the HIPPOCAMPUS and the THALAMUS.

Tree locations:

Basal Ganglia A08.186.211.200.885.287.249.320

Clinical Decision Rules

Scores or algorithms that correlate with clinically significant findings and that are used to predict an outcome, or suggest a diagnostic or therapeutic action.

FX: Practice Guidelines as Topic

Tree locations:

Decision Support Techniques E05.245.190
L01.313.500.750.190.190

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Codon Usage

The frequency of occurrence, in a specific organism's DNA sequence, of one of several potential synonymous codons that code for a particular amino acid. Frequently, there is a nonrandom pattern (bias) in the usage of a particular codon or codons over other synonymous codons.

Tree locations:

Codon G05.360.335.355.113

Community-Based Health Insurance

Low-cost HEALTH INSURANCE in which community, cooperative, mutual, and/or self-help resources are pooled to mitigate health risks and cover health care services in full or in part.

Tree locations:

Insurance, Health N03.219.521.576.343.108

Computational Chemistry

A branch of chemistry that utilizes computers as well as principles of chemistry and mathematics to generate data and solve problems related to the properties, structures, and reactions of molecules and materials.

FX: Computational Biology

Tree locations:

Chemistry H01.181.590

Congenital Bone Marrow Failure Syndromes

Inherited syndromes characterized by deficiency or absence of various blood cells due to mutations that affect HEMATOPOIETIC STEM CELLS development and proliferation.

Tree locations:

Bone Marrow Failure Disorders C15.378.190.223.500
Infant, Newborn, Diseases C16.614.183

Congenitally Corrected Transposition of the Great Arteries

A rare heart defect that occurs when the HEART VENTRICLES and attached valves, the MITRAL VALVE and the TRICUSPID VALVE are reversed so that the AORTA and the PULMONARY ARTERY are connected to the wrong ventricle. Although the heart valves and the two great arteries, the PULMONARY ARTERY and the AORTA are transposed, the blood flows to the correct place because the ventricles are also reversed and therefore corrects the transposition. It often occurs with other structural heart abnormalities.

Tree locations:

Transposition of Great Vessels C14.240.400.915.150
C14.280.400.915.150
C16.131.240.400.915.150

Continuous Renal Replacement Therapy

Procedures with continuous blood purification (e.g., dialysis, filtration or perfusion) via vascular access designed to mimic kidney function in kidney diseases (e.g., ACUTE RENAL FAILURE and poisoning).

Tree locations:

Extracorporeal Circulation E04.292.438
Renal Replacement Therapy E02.870.150

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Contraceptive Agents, Hormonal

Contraceptive agents that act on the ENDOCRINE SYSTEM.

FX: Hormonal Contraception

Tree locations:

Contraceptive Agents D27.505.696.875.360.360
D27.505.954.705.360.360

Copper Transport Proteins

Membrane proteins that facilitate the transport of copper cations across biological membranes.

Tree locations:

Cation Transport Proteins D12.776.157.530.450.250.578
D12.776.543.585.450.250.578

Copper Transporter 1

A high-affinity, saturable copper transporter of the PLASMA MEMBRANE that functions in the absorption of dietary copper.

Tree locations:

SLC31 Proteins D12.776.157.530.450.250.578.875.500
D12.776.157.530.937.640.500
D12.776.543.585.450.250.578.875.500
D12.776.543.585.937.762.500

Cricket Sport

A competitive sport played with a bat and ball between two teams of eleven players.

Tree locations:

Sports I03.450.642.845.255

CSK Tyrosine-Protein Kinase

Protein tyrosine kinases that phosphorylate tyrosine residues located in the C-terminal tails of SRC-FAMILY KINASES.

Tree locations:

src-Family Kinases D08.811.913.696.620.682.725.800.158

Cupping Therapy

A traditional practice, most notably in traditional medicine, which involves placing cups on the skin to create suction believed to help increase blood flow and promote healing associated with chronic neck and low back pain in the short term (From National Center for Complementary and Integrative Health, <https://nccih.nih.gov/news/cupping> (Accessed 11/5/2018)).

Tree locations:

Complementary Therapies E02.190.233

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Cyclams

Compounds made of fourteen-member tetraamine macrocycles which bind strongly to a wide range of metal ions.

Tree locations:

Macrocyclic Compounds D04.345.077
Polyamines D02.092.782.229

Cyclodialysis Clefts

Finding of a separation of the CILIARY BODY in the SCLERAL SPUR region, creating aqueous outflow from the ANTERIOR CHAMBER into suprachoroidal space between the CHOROID and the SCLERA. Persistent cyclodialysis clefts may be associated with OCULAR HYPOTENSION and OPTIC DISC EDEMA.

Tree locations:

Choroidal Effusions C11.250.105.250
C11.941.160.241.250

Cyclohexane Monoterpenes

Monoterpenes that include a cyclohexane ring in their structure.

Tree locations:

Cyclohexanes D02.455.426.392.368.367.211
Monoterpenes D02.455.849.575.157

Cyclopentane Monoterpenes

Monoterpenes that include a cyclopentane ring in their structure.

Tree locations:

Cyclopentanes D02.455.426.392.368.450.675
Monoterpenes D02.455.849.575.188

Cyclophilin D

A member of the cyclophilins family of isomerases which plays a role in the regulation of the permeability transition pore in mitochondria.

Tree locations:

Cyclophilins D08.811.399.325.500.400.300.875

Cymenes

A subclass of monoterpenes that contain a single benzene ring structure with an isopropyl group and one or more methyl groups.

Tree locations:

Benzene Derivatives D02.455.426.559.389.310
Monoterpenes D02.455.849.575.219

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Cytokine Release Syndrome

A systemic inflammatory response triggered by a variety of factors used in IMMUNOTHERAPY. It is characterized by marked elevations of various inflammatory CYTOKINES and by the following associated conditions: DYSPNEA; FEVER; HEADACHE; HYPOTENSION; NAUSEA; RASH; TACHYCARDIA and/or HYPOXIA.

Tree locations:

Systemic Inflammatory Response Syndrome C23.550.470.790.250
C23.550.835.900.356

Data Management

Processes that include acquiring, validating, storing, protecting, and processing data to ensure accessibility, reliability, and timeliness for users.

AN: coordinate with specific type of data

FX: Database Management Systems

FX: Big Data

Tree locations:

Information Management L01.399.375
Information Services L01.453.233
Information Storage and Retrieval L01.470.563

Decision Making, Shared

Collaborative process of reaching a decision.

Tree locations:

Problem Solving F02.463.785.810.250
Stakeholder Participation I03.743.500

Demoralization

Weakening of hope, courage, or confidence.

Tree locations:

Morale F01.829.477.500

Diabulimia

Eating disorder occurring typically in patients with Diabetes Mellitus, Type 1 who restrict insulin intake in order to lost weight.

Tree locations:

Feeding and Eating Disorders F03.400.375

Diffuse Intrinsic Pontine Glioma

A rare, aggressive brain tumor that forms in the GLIAL CELLS in the PONS.

AN: coordinate with BRAIN STEM NEOPLASMS

Tree locations:

Brain Stem Neoplasms C04.588.614.250.195.411.100.500
C10.228.140.211.500.100.500
C10.551.240.250.400.200.500
Glioma C04.557.465.625.600.380.185
C04.557.470.670.380.185
C04.557.580.625.600.380.185

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Dihydrostilbenoids

Organic compounds characterized by the functional group 1,2-dihydrostilbene.

Tree locations:

Bibenzyls D02.455.426.559.389.140.308.500

Stilbenes D02.455.426.559.389.150.700.288

Disruptive Technology

A process by which a product or service takes root initially in simple applications at the bottom of a market and then relentlessly moves up market, eventually displacing established competitors. (<http://www.claytonchristensen.com/key-concepts>)

Tree locations:

Technology J01.897.200

Drug Collateral Sensitivity

Increase in sensitivity of an organism, disease, or tissue to one drug that develops following the loss of sensitivity (i.e. resistance) to another drug.

Tree locations:

Drug Interactions G07.690.773.968.352

Dry Needling

Intervention that uses a thin filiform needle to penetrate the skin and stimulate underlying myofascial trigger points, muscular, and connective tissues for the management of neuromusculoskeletal pain and movement impairments.

Tree locations:

Complementary Therapies E02.190.292

Physical Therapy Modalities E02.779.413

Dual Anti-Platelet Therapy

Treatment with a combination of two types of antiplatelet agents to prevent blood clotting - usually ASPIRIN and another of the PLATELET AGGREGATION INHIBITORS.

FX: Platelet Aggregation Inhibitors

Tree locations:

Drug Therapy, Combination E02.319.310.537

Duocarmycins

A group of pyrroloindole compounds often with additional spirocyclic unit(s) and their analogs originally isolated from STREPTOMYCES. They bind DNA minor grooves with adenine-N3 alkylation activity.

Tree locations:

Indoles D03.633.100.473.278

Pyrroles D03.383.129.578.275

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Duration of Therapy

Planned or actual duration of various treatments or preventive measures.

Tree locations:

Patient Care E02.760.287
N02.421.585.287

E-Cigarette Vapor

Complex mixture of vaporized chemicals emitted during SMOKING of E-CIGARETTES.

AN: coordinate with AIR POLLUTION if pertinent

FX: Vaping

Tree locations:

Aerosols D26.255.165.055.173

Early Warning Score

Tool for bedside evaluation based on five physiological parameters: SYSTOLIC PRESSURE, PULSE, RESPIRATORY RATE, BODY TEMPERATURE and AVPU (alert, voice, pain, unresponsive) score.

Tree locations:

Severity of Illness Index E05.318.308.980.438.475.456.500.375
N05.715.360.300.800.438.375.364.500.375
N06.850.520.308.980.438.475.364.500.375

Edible Films

Packaging materials that can be directly consumed. They provide barrier and protection, while enhancing quality and safety of food products. (Bourtoom, 2008).

Tree locations:

Food Packaging J01.576.423.850.600.200
Product Packaging J01.576.761.350

Edible Insects

Organisms of the INSECTA class that are used as food or are suitable as a nutritional source, especially by humans.

Tree locations:

Food G07.203.300.463
J02.500.463
Insecta B01.050.500.131.617.276

Emotional Regulation

The manifestation of an emotional response by which individuals influence the intensity, duration, valence, or manifestation of their response. Emotion regulation either precedes (avoidance, interpretation) or follows an emotion (suppression, reappraisal). Emotion regulation is distinct from coping (focuses primarily on decreasing a negative emotional experience), and can include increasing or decreasing both positive and negative emotions consciously or unconsciously.

Tree locations:

Emotions F01.470.311
Self-Control F01.145.813.595.500

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Empowerment

Process of increasing the capacity of individuals or groups to make choices and to transform those choices into desired actions as designed by the individuals or groups.

Tree locations:

Power, Psychological F01.658.780.500

Social Behavior F01.145.813.195

Enhanced Recovery After Surgery

A protocol of components related to preadmission, preoperative, intraoperative, and postoperative care. The protocol is implemented with the goal of improving patient recovery, facilitating earlier discharge from the hospital, and potentially reducing health care costs without increasing complications or hospital readmissions. The protocol components may contribute to minimizing, and/or improving the response to, physiological stress associated with surgery.

Tree locations:

Perioperative Care E04.604.125

Environmental DNA

DNA found in the ENVIRONMENT that is from the residual biological materials of the organisms in the environment.

FX: Metagenomics

Tree locations:

DNA D13.444.308.577

Environmental Indicators

Data related to climate change, ozone layer depletion, eutrophication, acidification, toxic contamination, urban environmental quality, biodiversity, cultural landscapes, waste, water resources, forest resources, fish resources, and soil degradation including desertification and erosion. (from <https://www.oecd.org/env/indicators-modelling-outlooks/37551205.pdf>).

FX: Environmental Biomarkers

Tree locations:

Environmental Monitoring N06.850.460.350.080.625

Environmental Science

Scientific discipline that studies external factors, both biotic (living) and abiotic (nonliving), to which an organism is exposed.

Tree locations:

Natural Science Disciplines H01.345

Epigenome

A network of chemical compounds surrounding DNA that modify the genome without altering the DNA sequences and have a role in determining which genes are active in a cell.

FX: Epigenesis, Genetic

Tree locations:

Genome G05.360.340.006

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Evidence-Based Pharmacy Practice

The practice of pharmacy in which the pharmacist makes decisions, taking into account the best available current research evidence, the pharmacist's expertise, and the needs and preferences of the patient.

Tree locations:

Evidence-Based Practice H02.249.937
Pharmacy H02.646.125

Exposome

The measure of all the exposures of an individual from all sources, including environmental and occupational sources, in a lifetime and how those exposures relate to health. (from <https://www.cdc.gov/niosh/topics/exposome/> on 06/06/2019)

Tree locations:

Environmental Exposure N06.850.460.350.096

Extranodal Extension

A penetration of LYMPH NODE metastatic cells through the nodal capsule into the perinodal fatty tissue used in a TUMOR STAGING system (the TNM staging system).

Tree locations:

Neoplasm Metastasis C04.697.650.280
C23.550.727.650.280

Extreme Hot Weather

Tree locations:

Extreme Weather G16.500.750.775.291.500

Extreme Weather

Events that have extreme values of important meteorological variables. Extreme is generally defined as either taking maximum values or exceedance above pre-existing high thresholds. Such events are generally rare; for example, extreme wind speeds exceeding the 100-year return value, which have a probability of only 0.01 of occurring in any particular year. (Stephenson, 2008)

Tree locations:

Weather G16.500.275.063.725.232
G16.500.750.775.291
N06.230.300.100.725.193

Familial Exudative Vitreoretinopathies

A group of inherited disorders characterized by incomplete development of the retinal vasculature. Its severity can vary from complete blindness in infancy, to mild or no visual problems, where small areas of vascular defects are observable only by FLUORESCIN ANGIOGRAPHY. Exudative vitreoretinopathy 1 is associated with mutations in the FZD4 gene.

Tree locations:

Eye Abnormalities C11.250.345
C16.131.384.424
Eye Diseases, Hereditary C11.270.238
C16.320.290.352
Retinal Diseases C11.768.337

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Famine

The conditions when at least 20 per cent of households in an area face extreme food shortages with a limited ability to cope; acute malnutrition rates exceed 30 per cent; and the death rate exceeds two persons per day per 10,000 persons. (From news.un.org/en/story/2011/07/382342-when-food-security-crisis-becomes-famine)

FX: Hunger

FX: Starvation

Tree locations:

Food Supply J01.576.423.750.500

Fatty Acid Elongases

Enzymes conserved from yeast to mammals which mediate elongation of FATTY ACIDS into very-long-chain fatty acids.

Tree locations:

Acetyltransferases D08.811.913.050.134.343

Ferroptosis

A form of REGULATED CELL DEATH initiated by oxidative perturbations of the intracellular microenvironment that is under constitutive control by glutathione peroxidase 4 and can be inhibited by iron chelators and lipophilic antioxidants.

Tree locations:

Regulated Cell Death G04.146.954.178

Fertility Clinics

Health clinics offering fertility treatment services.

Tree locations:

Health Facilities N02.278.204

Fictional Works as Topic

Works about creative writing, not presented as factual.

Tree locations:

Books L01.178.682.192.459

Food Fussiness

Patterns associated with eating including modes of feeding, rhythmic patterns of eating, and time intervals.

Tree locations:

Feeding Behavior F01.145.407.458

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Forensic Entomology

The use of insects and related arthropods that inhabit decomposing corpses or remains in the conduct of medico-legal or medico-criminal investigations.

Tree locations:

Entomology H01.158.273.943.409.500
Forensic Sciences I01.198.780.906

Formins

A family of multidomain microfilament proteins associated with ACTIN FILAMENTS. They generally have multiple Formin-Homology domains (e.g., FH2 domain) and additionally have a RhoGTPase-binding domain and a diaphanous inhibitory domain. Formins and homologs are involved in actin reorganization.

Tree locations:

Microfilament Proteins D05.750.078.730.333
D12.776.220.525.333

Galagidae

A family of Primates of the suborder Strepsirhini containing six genera. The family is widely distributed in Africa near Subsaharan region. The six genera are: Euoticus (needle-clawed galagos), GALAGO (bush babies), Galagoides (dwarf galagos), Otolemur (greater galagos), Paragalago and Sciurocheirus (squirrel galagos). All are primarily arboreal and nocturnal.

Tree locations:

Strepsirhini B01.050.150.900.649.313.988.700.277

Gemtuzumab

Immunotoxin that consists of an anti-CD33 (CD33 ANTIGEN) monoclonal antibody conjugated to CALICHEAMICIN. It is used for the treatment of ACUTE MYELOID LEUKEMIA.

Tree locations:

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.790
D12.776.124.790.651.114.224.060.790
D12.776.377.715.548.114.224.200.790
Calicheamicins D09.408.051.247.500

Genetic Introgression

The transfer of genetic material from one species to another by inter-species hybridization and repeated backcrossing.

FX: Gene Flow

Tree locations:

Hybridization, Genetic E05.820.150.390.500
G05.090.390.500

Germinal Center Kinases

Serine-threonine kinases characterized by an N-terminal STE20 kinase domain.

Tree locations:

Protein-Serine-Threonine Kinases D08.811.913.696.620.682.700.397

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Gingipain Cysteine Endopeptidases

Cysteine endoproteinases, from periodontal pathogen PORPHYROMONAS GINGIVALIS, acting as virulence factors associated with PERIODONTITIS. They are produced as pre-proteins which mature into ARGININE and LYSINE specific endopeptidases.

Tree locations:

Cysteine Endopeptidases D08.811.277.656.262.500.468

Globus Sensation

A feeling of a lump in the throat that occurs between meals in the absence of other gastrointestinal and motility disorders (e.g., DYSPHAGIA; GASTROESOPHAGEAL REFLUX).

Tree locations:

Conversion Disorder F03.875.300.500

Hair Analysis

Examination of hair by chemical, physical, or microscopic means.

FX: Hair

Tree locations:

Clinical Chemistry Tests E01.370.225.124.385

E05.200.124.385

Diagnostic Techniques, Urological E01.370.390.288

Hamman-Rich Syndrome

Acute idiopathic interstitial pneumonitis characterized by diffuse PULMONARY ALVEOLI damage with uniform edematous connective tissue proliferation. It is often associated with extensive fibroblastic distortion of the lung parenchyma and leads to ADULT RESPIRATORY DISTRESS SYNDROME in later stages.

Tree locations:

Idiopathic Pulmonary Fibrosis C08.381.765.500.500

Heme-Binding Proteins

Metalloproteins that contain a HEME ligand as the prosthetic group.

Tree locations:

Carrier Proteins D12.776.157.373

Hemeproteins D12.776.422.498

Hepatic Infarction

Formation of infarct resulting from obstruction of HEPATIC ARTERY and/or PORTAL VEIN most often after LIVER TRANSPLANTATION or hepatobiliary surgery.

Tree locations:

Infarction C23.550.513.355.500

C23.550.717.489.500

Liver Diseases C06.552.289

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Hereditary Complement Deficiency Diseases

Genetic disorders due to mutations in genes involved in COMPLEMENT SYSTEM PROTEINS. They are often classified into distinct pathway of complement activation where causative mutations are found (e.g., classical pathway, lectin pathway, alternative pathway, and terminal complement pathway).

Tree locations:

Primary Immunodeficiency Diseases C16.320.798.500
C20.673.795.500

Heterogeneous Nuclear Ribonucleoprotein D0

Member of a subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs), heterogeneous nuclear ribonucleoprotein D0 (hnRNP D0) specifically binds RNA molecules that contain AU RICH ELEMENTS found within the 3'-UTR of many PROTO-ONCOGENES and CYTOKINES mRNAs. It functions as a transcription factor, binds to double- and single-stranded DNA sequences in a specific manner.

Tree locations:

Heterogeneous-Nuclear Ribonucleoprotein D D12.776.157.725.813.750.300.500
D12.776.664.962.813.750.300.500

Historical Trauma

Clinical distress among descendants of survivors of mass trauma, as if they had suffered through the same extreme historic circumstances. Symptoms may persist through generations.

Tree locations:

Psychological Trauma F03.950.750.375.500
Stress, Psychological F02.830.900.500

Homeobox A10 Proteins

Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis of tissues. They bind to the DNA sequence 5'-AA[AT]TTTTATTAC-3'.

Tree locations:

Homeodomain Proteins D12.776.260.400.226

Hormonal Contraception

Contraceptive methods that utilize HORMONAL CONTRACEPTIVE AGENTS.

FX: Contraceptive Agents, Hormonal

Tree locations:

Contraception E02.875.194.581

Horticulture

Branch of agriculture which involves the cultivation of vegetables, flowers, or ornamental plants for food, industrial, medicinal, or aesthetic purposes. It does not include CROP PRODUCTION on a large scale.

Tree locations:

Agriculture J01.040.498
Recreation I03.450.642.581

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Hot Melt Extrusion Technology

Solvent-free method for preparing numerous types of drug delivery systems and dosage forms for active pharmaceutical ingredients that have solubility issues. It involves pumping polymeric materials at temperatures above their glass transition temperature to mix in active pharmaceutical ingredients with or without binders thus forming an amorphous product with an increase in the dissolution profile for the active pharmaceutical ingredients.

Tree locations:

Green Chemistry Technology J01.897.360.500
Technology, Pharmaceutical E05.916.840
J01.897.836.500

Hybrid Renal Replacement Therapy

Procedures involving non-continuous blood purification (e.g., dialysis, filtration or perfusion) via vascular access with settings for dialysate and blood flow rates and treatment duration settings hybrid between CRRT TECHNIQUE and IRR T TECHNIQUE.

Tree locations:

Extracorporeal Circulation E04.292.573
Renal Replacement Therapy E02.870.254

Hydrogen Deuterium Exchange-Mass Spectrometry

A mass spectrometry method utilizing hydrogen-deuterium exchange kinetics to study conformational and dynamic changes especially of proteins, such as interactions during ligand binding and allosteric effects during catalysis.

Tree locations:

Deuterium Exchange Measurement E05.196.344.500
Mass Spectrometry E05.196.566.550

Immunogenic Cell Death

A form of regulated cell death that results in release of specific DAMAGE ASSOCIATED MOLECULAR PATTERN MOLECULES which activate an ADAPTIVE IMMUNE RESPONSE. It can be initiated in any type of cell by a restricted set of stimuli, including viral infection, some chemotherapeutics or immunogenic radiation therapy.

Tree locations:

Regulated Cell Death G04.146.954.285

Indigenous Peoples

Descendants who self-identify as members of a group who inhabited a country or region at the time when people of different cultures or ethnic origins arrived. They often maintain their distinct language, culture, and beliefs.

Tree locations:

Ethnic Groups M01.686.754.254

Indriidae

A family of primates of the superfamily LEMUROIDEA, suborder STREPSIRRHINI containing genera AVAHI (woolly lemurs); INDRI; and PROPITHECUS (sifakas). The family is distributed in Madagascar.

Tree locations:

Strepsirhini B01.050.150.900.649.313.988.700.354

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Infratemporal Fossa

The compartment that lies posterior to the MAXILLA and inferior to the side wall of the SKULL deep to the ramus of the MANDIBLE. It contains several FACIAL NERVES and the CAROTID ARTERIES and the JUGULAR VEINS.

AN: NIM when merely locational; neoplasms: coordinate with SKULL BASE NEOPLASMS

Tree locations:

Skull Base A01.456.830.600
A02.835.232.781.750.700

Inotuzumab Ozogamicin

Immunotoxin that consists of anti-CD22 (CD22 ANTIGEN) humanized monoclonal antibody covalently linked to the antineoplastic antibiotic CALICHEAMICIN. It is used for the treatment of adults with relapsed or refractory B-cell precursor acute lymphoblastic leukemia (LEUKEMIA, ACUTE LYMPHOBLASTIC).

Tree locations:

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.794
D12.776.124.790.651.114.224.060.794
D12.776.377.715.548.114.224.200.794
Calicheamicins D09.408.051.247.750

Intermittent Renal Replacement Therapy

Procedures with non-continuous blood purification (e.g., dialysis, filtration and/or perfusion) via vascular access by increasing blood flow rate compared to CONTINUOUS RRT.

Tree locations:

Extracorporeal Circulation E04.292.636
Renal Replacement Therapy E02.870.263

Internet of Things

Networking capability which facilitates information flow to and from objects and devices using the INTERNET.

Tree locations:

Internet L01.224.230.110.500.657

Internet-Based Intervention

Use of the INTERNET to facilitate the dissemination of health-related information and to connect patients to support.

Tree locations:

Internet L01.224.230.110.500.688

Interosseous Membrane

A sheet of fibrous connective tissue rich in COLLAGEN often linking two parallel bony structures forming a syndesmosis type joint. It provides longitudinal stability, TENSILE STRENGTH, and weight distribution/transfer and may allow limited movement in syndesmoses.

Tree locations:

Connective Tissue A10.165.560

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Interpersonal Psychotherapy

Interpersonal modification of psychodynamic psychotherapy. Therapy is present-focused and seeks to resolve problems in interpersonal relations. Aspects of attachment theory are used to analyze how past relationships affect current relationships.

Tree locations:

Psychotherapy F04.754.506

Intersex Persons

Those individuals with INTERSEX CONDITIONS, with or without a desire to undergo SEX REASSIGNMENT PROCEDURES.

Tree locations:

Sexual and Gender Minorities M01.777.250

Involuntary Commitment

Non-voluntary institutionalization or isolation following refusal or failure to take medication, to complete treatment, or to adhere to infection control precautions, or behavior that may or does endanger self or others.

Tree locations:

Institutionalization E02.760.415.640

Jugular Foramina

A pair of openings from the posterior cranial fossa through which the GLOSSOPHARYNGEAL NERVE; VAGUS NERVE; ACCESSORY NERVE and the internal JUGULAR VEINS pass.

Tree locations:

Cranial Fossa, Posterior A01.456.830.200.500
A02.835.232.781.750.400.500

Lactate Dehydrogenase 5

A member of the LACTATE DEHYDROGENASES isozyme family, Lactate Dehydrogenase 5 is localized to liver and skeletal muscle cells where its expression increases in liver disease and striated muscle trauma respectively.

Tree locations:

L-Lactate Dehydrogenase D08.811.682.047.551.400.500

Learning Health System

A system in which internal data and experience are systematically integrated with external evidence and that knowledge is put into practice. As a result, patients get higher quality, safer, more efficient care, and health care delivery organizations become better places to work. (<https://healthit.ahrq.gov/health-care-theme/learning-health-system>)

Tree locations:

Delivery of Health Care N04.590.374.395
N05.300.504

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Legal Epidemiology

Scientific study of law as a factor in the cause, distribution, and prevention of disease and injury. (From <https://read.dukeupress.edu/jh ppl/article/41/6/1151/40084/Policy-Surveillance-A-Vital-Public-Health-Practice>).

Tree locations:

Forensic Medicine I01.198.780.937.544
Public Health N06.850.698

Ligularia

A genus of ornamental plants in the family ASTERACEAE, often found near water.

Tree locations:

Asteraceae B01.650.940.800.575.912.250.100.508

Limited English Proficiency

Limited ability to communicate with or understand English.

Tree locations:

Communication Barriers L01.143.230.750

Lipidomics

A branch of metabolomics concerned with the study of global LIPIDS profiles in physiological systems.

Tree locations:

Metabolomics H01.158.201.586.500
H01.158.273.180.599.500
H01.181.122.638.500

Locked-In Syndrome

Acquired neuromuscular disorder characterized by complete paralysis of voluntary muscles and lower CRANIAL NERVES except for limited voluntary eye movements. It is due to various cerebrospinal disconnections at or near the PONS and the POSTERIOR CRANIAL FOSSA, typically secondary to pontine hemorrhage or infarct. Because cognitive function is intact it is sometimes referred to as a pseudocoma state.

Tree locations:

Neuromuscular Diseases C10.668.416
Quadriplegia C10.597.622.760.500
C23.888.592.636.786.500

Lymph Node Ratio

The ratio of metastatic to total examined LYMPH NODES.

Tree locations:

Cytodiagnosis E01.370.225.500.384.808
E05.200.500.384.733
E05.242.384.733

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Macaca arctoides

A species of the genus MACACA inhabiting India, China, and other parts of southern Asia. The species is characterized by its thick brown fur covering most of its body except the face and short tail.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Macaca B01.050.150.900.649.313.988.400.112.199.120.510.260

Macaca fuscata

A species of the genus MACACA characterized by red naked face. M. fuscata is primarily ground-dwelling in forest and mountains often near hot springs in Japan.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Macaca B01.050.150.900.649.313.988.400.112.199.120.510.535

Macroautophagy

The segregation of large parts of the cytoplasm, including ORGANELLES and PROTEIN AGGREGATES, into AUTOPHAGOSOMES and lysosomal degradation after fusion with LYSOSOMES.

Tree locations:

Autophagy G04.011.750

Mandibular Nerve Injuries

Traumatic injuries to the MANDIBULAR NERVE and its branches. Note that marginal mandibular nerve injury is a type of FACIAL NERVE INJURIES. Injuries to LINGUAL NERVE branch of mandibular nerve is LINGUAL NERVE INJURIES.

Tree locations:

Trigeminal Nerve Injuries C07.465.299.625.500.349.750
C10.292.200.875.750
C10.292.319.625.700.349.750
C10.900.300.218.775.750
C26.915.300.400.825.750

Maze Procedure

A surgical treatment in which heart tissue is scarred (cut-and-sew method), excised or otherwise destroyed in an open chest approach to direct electrical signals through a more controlled path via the ATRIOVENTRICULAR NODE. It is often used to restore normal rhythms in ATRIAL FIBRILLATION.

Tree locations:

Ablation Techniques E04.014.640
Cardiac Surgical Procedures E04.100.376.602
E04.928.220.465

Meibomian Gland Dysfunction

A chronic dysfunction of MEIBOMIAN GLANDS characterized by altered tear film stability and function due to a decrease or alteration in lipid quality/content in meibum. It is often associated with evaporative-type DRY EYE SYNDROME.

Tree locations:

Eyelid Diseases C11.338.780

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Mental Foramen

An opening on the anterolateral aspect of the MANDIBLE through which the mental nerve bundle and vessels exit.

Tree locations:

Mandible A02.835.232.781.324.502.632.800
A14.521.632.800

Microautophagy

A type of autophagy in which the cytoplasmic entities, such as parts of CELL NUCLEI; damaged MITOCHONDRIA; and lipid droplets, are taken up by small vesicles such as VACUOLES or MULTIVESICULAR BODIES, and degraded by lysosomal digestion.

Tree locations:

Autophagy G04.011.875

Microgels

Three-dimensional biocompatible polymers in micrometer size range. They are typically spherical particles in a size range of 1-350 micrometers when used for drug delivery and 3D cell culture applications.

Tree locations:

Gels D20.280.320.531
D26.255.165.320.531
Polymers D05.750.217
D25.720.501
J01.637.051.720.562

Microplastics

Plastic particles, less than 5 millimeters in diameter, that are generated from the degradation of larger pieces or are manufactured to be microstructures or smaller.

FX: Microspheres

Tree locations:

Plastics D05.750.716.294
D25.720.716.294
J01.637.051.720.716.294

Microwave Imaging

Use of MICROWAVES as a diagnostic tool.

Tree locations:

Diagnostic Imaging E01.370.350.536

Military Health

The physical and mental conditions of MILITARY PERSONNEL, active duty and retired U.S. Military personnel and their dependents.

FX: Military Family

FX: Military Personnel

Tree locations:

Health N01.400.506

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Military Health Services

Services organized for the diagnosis and treatment of disease and the maintenance of health primarily of MILITARY PERSONNEL.

Tree locations:

Health Services N02.421.497
Organization and Administration N04.452.523

Missed Diagnosis

Failure to identify or diagnose a medical condition at the time a health professional is acquainted with the symptoms.

Tree locations:

Diagnostic Errors N02.421.450.280.500

Mitochondrial Transmembrane Permeability-Driven Necrosis

A form of regulated cell death that is initiated by specific perturbations of the intracellular microenvironment such as severe OXIDATIVE STRESS and cytosolic CALCIUM overload, which result in osmotic breakdown of the MITOCHONDRIAL MEMBRANES.

Tree locations:

Regulated Cell Death G04.146.954.393

Monocyclic Sesquiterpenes

Sesquiterpene compounds that contain a single ring structure.

Tree locations:

Sesquiterpenes D02.455.849.765.521

Monoterpene Aldehydes and Ketones

Monoterpene compounds that include a double bonded oxygen attached to the one or more of the carbon atoms.

Tree locations:

Aldehydes D02.047.725
Ketones D02.522.698
Monoterpenes D02.455.849.575.766

Movable Books (*Pub Type*)

Books having mechanisms or parts that move, or are moved by the reader.

AN: INDEXER: do not use

Tree locations:

Publication Formats V02.535

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Multifocal Choroiditis

A multifocal uveitis syndrome involving the RETINAL PIGMENT EPITHELIUM and capillary layer of the CHOROID. It is characterized by chronic UVEITIS and multiple CHOROID lesions referred to as white dots, blurry vision, floaters, sensitivity to light, blind spots, and eye discomfort.

Tree locations:

Choroiditis C11.941.160.478.550
C11.941.879.780.900.300.489
White Dot Syndromes C11.941.879.780.900.650.500

Multifunctional Nanoparticles

Nanoparticles that are engineered to have two or more physical properties.

Tree locations:

Nanoparticles J01.637.512.600.525

Multiparametric Magnetic Resonance Imaging

Magnetic Resonance Imaging technique that combines functional imaging techniques such as diffusion-weighted imaging (DWI), dynamic contrast-enhanced imaging and magnetic spectroscopy. This technique is widely used for active surveillance in prostate cancer imaging.

Tree locations:

Magnetic Resonance Imaging E01.370.350.825.500.755

Myosin VIIa

Also referred to as unconventional myosin VIIa, these are actin-based motor molecules with ATPase activity that function in intracellular movements (e.g., HAIR CELLS, AUDITORY).

Tree locations:

Myosins D05.750.078.730.475.875
D08.811.277.040.025.193.750.937
D12.776.210.500.600.735
D12.776.220.525.475.875

Myotoxicity

Damage to the muscle or its function secondary to toxic substances such as drugs used in CHEMOTHERAPY; IMMUNOTHERAPY; or RADIATION.

Tree locations:

Drug-Related Side Effects and Adverse Reactions C25.100.828
Muscular Diseases C05.651.682
C10.668.491.628
Pathologic Processes C23.550.706
Radiation Injuries C26.733.411
G01.750.748.500.411

Nanogels

Three-dimensional biocompatible materials formed by cross-linking a hydrophilic polymeric component (e.g., HYDROGELS). They are typically spherical particles in a size range of 20-250 nm when used for drug delivery applications.

Tree locations:

Gels D20.280.320.609
Nanocomposites J01.637.512.150.500
Nanoparticles J01.637.512.600.596
Polymers D05.750.219
D25.720.532
J01.637.051.720.584

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Nanopore Sequencing

A sequencing protocol that drives nucleic acids (DNA or RNA) in an electric field through NANOPORES allowing single molecule sequence analysis.

Tree locations:

Sequence Analysis E05.393.760.560

Narcotic-Related Disorders

Disorders related to or resulting from abuse or misuse of NARCOTICS.

Tree locations:

Substance-Related Disorders C25.775.643
F03.900.647

National Program of Cancer Registries

A unit of the United States Centers for Disease Control and Prevention that supports the collection of high-quality data on cancer occurrence (including the type, extent, and location of the cancer), the type of initial treatment, and outcomes.

AN: add UNITED STATES; research support by this agency is checked as RESEARCH SUPPORT, U.S. GOV'T, P.H.S.; CATALOGER: Use NAF entry

Tree locations:

Centers for Disease Control and Prevention, U.S. I01.409.418.750.600.650.200.760
N03.540.348.500.500.600.650.225.760

Necroptosis

A form of regulated cell death initiated by perturbations of extracellular or intracellular homeostasis that trigger a specific cell death pathway involving the activation of RIPK3 and MLKL (mixed lineage kinase domain like pseudokinase). Morphological changes include cytoplasmic and organellar swelling, rupture of the PLASMA MEMBRANE, and CHROMATIN CONDENSATION.

AN: do not confuse with NECROSIS the pathological process

Tree locations:

Regulated Cell Death G04.146.954.500

Neurosteroids

Endogenous compounds or drugs that affect neuronal excitability through modulation of specific ionotropic receptors (e.g., GABA-A RECEPTORS). Endogenous neurosteroids are steroid hormones de novo synthesized by neurons and glial cells from steroid metabolite precursors (e.g., PREGNENOLONE).

Tree locations:

Neurotransmitter Agents D27.505.519.625.544
D27.505.696.577.544

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Noninvasive Prenatal Testing

The analysis of cell-free fetal DNA or the DNA from fetal cells that are biopsied from a pregnant woman's blood, to screen for genetically-determined traits and genetic abnormalities.

Tree locations:

Genetic Testing E01.370.225.562.375
E05.393.435.375
N02.421.308.430.250
N02.421.726.233.221.375
Liquid Biopsy E01.370.225.500.384.100.396.500
E01.370.225.998.054.396.500
E05.200.500.384.100.396.500
E05.200.998.054.396.500
E05.242.384.100.396.500
Prenatal Diagnosis E01.370.378.630.724

Nucleobindins

A DNA and calcium binding protein which plays a role in calcium homeostasis.

Tree locations:

Calcium-Binding Proteins D12.776.157.125.588
DNA-Binding Proteins D12.776.260.623

Nudiviridae

A family of ARTHROPOD viruses, including INSECT VIRUSES and crustacean viruses. They are rod-shaped, enveloped, and circular dsDNA viruses that share structural and replication characteristics with BACULOVIRIDAE. Genera include Alphanudivirus and Betanudivirus.

Tree locations:

DNA Viruses B04.280.543
Insect Viruses B04.525.573

Obesity, Maternal

BODY MASS INDEX in PREGNANT WOMEN that is excessively above the recommended cut-off.

Tree locations:

Obesity C18.654.726.500.633
C23.888.144.699.500.125
E01.370.600.115.100.160.120.699.500.312
G07.100.100.160.120.699.500.312
Pregnancy Complications C13.703.417

Observational Studies, Veterinary as Topic

Works about clinical studies in which animal subjects may receive diagnostic, therapeutic, or other types of interventions and where the investigator does not assign subjects to specific interventions.

AN: for general design, methodology, economics, etc. of veterinary observational studies; a different heading OBSERVATIONAL STUDY, VETERINARY is used for reports of a specific veterinary observational study

Tree locations:

Clinical Studies as Topic E05.318.372.250.750
N05.715.360.330.250.750
N06.850.520.450.250.750

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Occlusion Bodies, Viral

A polyhedral or ovocylindrical shaped matrix composed of a single crystalline protein (OCCLUSION BODY MATRIX PROTEINS) in which VIRIONS are embedded. It is distinguished from the area of the CYTOPLASM or CELL NUCLEUS in which virus components are being synthesized and assembled, known as VIRAL INCLUSION BODIES.

Tree locations:

Viral Structures A21.125

Open Abdomen Techniques

Abdominal wound closure techniques in which the opening from a laparoscopic abdominal incision is left open, but covered, to reduce or prevent INTRA-ABDOMINAL HYPERTENSION.

Tree locations:

Abdominal Wound Closure Techniques E04.987.100.500

Opioid Epidemic

Widespread use of OPIOIDS by disproportionately large numbers of individuals within a population, community, or region occurring within a relatively narrow window of time.

Tree locations:

Epidemics N06.850.290.200.300

Opioid-Induced Constipation

CONSTIPATION associated with the use of OPIOIDS.

Tree locations:

Constipation C23.888.821.150.500

Narcotic-Related Disorders C25.775.643.250

F03.900.647.250

Optic Nerve Hypoplasia

A group of rare genetic disorders characterized by underdeveloped OPTIC NERVES, resulting in increased incidences of vision impairment, CONGENITAL NYSTAGMUS and STRABISMUS. It may be syndromic, and is often associated with CNS malformations.

Tree locations:

Eye Diseases, Hereditary C11.270.588

C16.320.290.612

Nervous System Malformations C10.500.760

C16.131.666.763

Optic Nerve Diseases C10.292.700.463

C11.640.522

Organoiron Compounds

Organic compounds that contain iron in carbon-to-iron chemical bond.

Tree locations:

Organometallic Compounds D02.691.713

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Ototoxicity

Damage to the EAR or its function secondary to exposure to toxic substances such as drugs used in CHEMOTHERAPY; IMMUNOTHERAPY; or RADIATION.

Tree locations:

Drug-Related Side Effects and Adverse Reactions C25.100.656
Ear Diseases C09.218.788
Pathologic Processes C23.550.753
Radiation Injuries C26.733.650
G01.750.748.500.650

Pancreaticobiliary Maljunction

A group of anatomical variations in which the COMMON BILE DUCT and MAIN PANCREATIC DUCT are joined outside the duodenal wall often with abnormally long common channel rather than at the SPHINCTER OF ODDI.

Tree locations:

Common Bile Duct Diseases C06.130.120.250.640
Digestive System Abnormalities C06.198.964
C16.131.314.778

Pancreatitis, Acute Hemorrhagic

An acute INFLAMMATION of the PANCREAS in which the initial edematous pancreatitis evolved into necrosis accompanied by HEMORRHAGE.

Tree locations:

Pancreatitis C06.689.750.325

Para-Athletes

Physically disabled individuals who have developed skills, physical stamina and strength to participate in SPORTS or other physical activities.

Tree locations:

Athletes M01.072.500
Disabled Persons M01.150.738

Parapharyngeal Space

The deep neck space near the PHARYNX located anterior to the pterygomandibular raphe, posterior to the prevertebral fascia, inferior to the SKULL BASE, and superior to the HYOID BONE. Prestyloid parapharyngeal space contains cranial nerves IX, X, XI, XII and internal JUGULAR VEIN and internal CAROTID ARTERY. Poststyloid parapharyngeal space contains AURICULARTEMPORAL NERVE and MAXILLARY ARTERY and ascending pharyngeal artery.

Tree locations:

Neck A01.598.250
Skull Base A01.456.830.800
A02.835.232.781.750.850

Parthanatos

A type of regulated cell death initiated by hyperactivation of POLY (ADP-RIBOSE) POLYMERASE-1 (PARP-1) as a consequence of DNA DAMAGE; OXIDATIVE STRESS; HYPOXIA; HYPOGLYCEMIA; or INFLAMMATION. This leads to DNA FRAGMENTATION and CHROMATIN condensation.

Tree locations:

Regulated Cell Death G04.146.954.750

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Perfusion Index

The ratio of arterial blood flow (PULSATILE FLOW) to venous, capillary, and tissue blood flow (non-pulsatile blood flow) - as measured regionally or peripherally.

FX: Plethysmography

Tree locations:

Diagnostic Techniques, Cardiovascular E01.370.370.585

Perioperative Medicine

A medical specialty concerned with the patient before and after surgical procedures.

Tree locations:

Medicine H02.403.675

Phenomics

The systematic study of how genetic information or GENOMICS translates into biochemical, metabolic and morphological traits of an organism.

FX: Phenotype

Tree locations:

Computational Biology H01.158.273.180.700

Genetics H01.158.273.343.775

Phosphoinositide-3 Kinase Inhibitors

Agents that inhibit PHOSPHOINOSITIDE-3 KINASE activity.

Tree locations:

Enzyme Inhibitors D27.505.519.389.736

Phospholipid Hydroperoxide Glutathione Peroxidase

A selenoenzyme that converts GLUTATHIONE plus FATTY ACID HYDROPEROXIDES to GLUTATHIONE DISULFIDE plus hydroxy fatty acids and water.

Tree locations:

Peroxidases D08.811.682.732.925

Pinales

Order of Conifers of the class Pinopsida, subdivision Spermatophytina, and division Tracheophyta. The distinguishing attribute of the Pinales is the reproductive structure known as a cone.

Tree locations:

Tracheophyta B01.650.940.800.575.912.625

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Polycyclic Sesquiterpenes

Sesquiterpenes that contain two or more ring structures

Tree locations:

Polycyclic Compounds D04.663
Sesquiterpenes D02.455.849.765.674

Polyprenols

Long chain isoprene compounds that include a hydroxyl group at the terminal carbon atom.

Tree locations:

Alcohols D02.033.687
Terpenes D02.455.849.728

Pomegranate

A deciduous shrub or small tree in the family Lythraceae, order Myrtales, superorder Rosanae. It bears edible reddish-purple fruit berries with seeds and pulp produced from the ovary of a single flower.

Tree locations:

Lythraceae B01.650.940.800.575.912.250.859.833.500.625

Pork Meat

MEAT or flesh of a pig (*Sus scrofa*) used as food.

Tree locations:

Red Meat G07.203.300.600.813.500
J02.500.600.813.500

Post-Cardiac Arrest Syndrome

A reperfusion syndrome characterized by various pathophysiological processes after CARDIAC ARREST. It may include post-cardiac arrest brain injury (HYPOXIA-ISCHEMIA, BRAIN), cardiocirculatory dysfunction, (e.g., systemic ISCHEMIA), HYPERGLYCEMIA; MULTIPLE ORGAN FAILURE and delayed death.

Tree locations:

Brain Injuries C10.228.140.199.850
Heart Diseases C14.280.778
Reperfusion Injury C14.907.725.638
C23.550.767.877.625

Postoperative Cognitive Complications

COGNITIVE IMPAIRMENT or functional decline after a surgical procedure.

Tree locations:

Cognitive Dysfunction F03.615.250.700.500
Postoperative Complications C23.550.767.831

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Potassium Channels, Sodium-Activated

Potassium channels whose activation is dependent on intracellular sodium concentrations.

Tree locations:

Potassium Channels D12.776.157.530.400.600.950
D12.776.543.550.450.750.950
D12.776.543.585.400.750.950

Presbytini

The tribe of subfamily COLOBINAE, family CERCOPITHECIDAE. They are found in India, Indonesia, Malaysia, and Thailand.

Tree locations:

Colobinae B01.050.150.900.649.313.988.400.112.199.150.575

Primary Immunodeficiency Diseases

Genetic immunologic deficiency diseases and syndromes due to mutations in genes involved in IMMUNITY generally characterized by an increased susceptibility to infectious diseases. They are often associated with AUTOIMMUNE DISEASE manifestations.

Tree locations:

Genetic Diseases, Inborn C16.320.798
Immunologic Deficiency Syndromes C20.673.795

Protein-Arginine Deiminase Type 1

A peptidylarginine deiminase isoenzyme. It is a post-translational modification enzyme that catalyzes the conversion of protein-bound ARGININE residues to CITRULLINE residues in a CALCIUM ion-dependent manner. It functions within the epidermis, targeting INTERMEDIATE FILAMENTS; KERATINS; and filaggrin for CITRULLINATION to promote epidermal cornification.

FX: Citrullination

Tree locations:

Protein-Arginine Deiminases D08.811.277.721.250

Protein-Arginine Deiminase Type 2

A widely expressed isoenzyme of peptidylarginine deiminase, a post-translational modification enzyme that catalyzes the conversion of protein-bound ARGININE residues to CITRULLINE residues in a CALCIUM ion-dependent manner.

FX: Citrullination

Tree locations:

Protein-Arginine Deiminases D08.811.277.721.313

Protein-Arginine Deiminase Type 3

A post-translational enzyme that catalyzes the conversion of protein bound arginine residues to CITRULLINE residues in a CALCIUM ion-dependent manner. PADI3 is a peptidylarginine deiminase isoenzyme expressed in epidermal tissue.

FX: Citrullination

Tree locations:

Protein-Arginine Deiminases D08.811.277.721.375

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Protein-Arginine Deiminase Type 4

A histone modification enzyme, which converts both ARGININE and monomethyl-arginine to CITRULLINE. It is one of several protein-arginine deiminase isoenzymes. It is a gene regulator involved in APOPTOSIS and CELL DIFFERENTIATION and a potential therapeutic target for the treatment of a variety of diseases.

FX: Citrullination

Tree locations:

Protein-Arginine Deiminases D08.811.277.721.500

Protein-Arginine Deiminase Type 6

A peptidylarginine deiminase isoenzyme mainly expressed in egg and embryo tissues. It is a post-translational modification enzyme that catalyzes the conversion of protein-bound ARGININE residues to CITRULLINE residues in a CALCIUM ion-dependent manner.

FX: Citrullination

Tree locations:

Protein-Arginine Deiminases D08.811.277.721.438

Psychological Distress

Negative emotional state characterized by physical and/or emotional discomfort, pain, or anguish.

Tree locations:

Emotions F01.470.315

Psychology, Positive

The scientific study of the strengths that enable individuals and communities to thrive. It is founded on the belief that people want to lead meaningful and fulfilling lives, to cultivate what is best within themselves, and to enhance their experiences of love, work, and play. (<https://ppc.sas.upenn.edu/>)

FX: Optimism

Tree locations:

Psychology F04.096.628.057

Public Nondiscrimination Policies

Policies that include the existence of a body responsible for the articulation and implementation of a platform based on an equality perspective that requires the integration of race-ethnicity, differences in sexual orientation, as well as the demands and needs arising from differences within the executive. Its objective is to translate a programmatic vision into action and action axes that reflects the struggle for egalitarian social relations. (From <http://bit.ly/28WAaYO>)

Tree locations:

Public Policy I01.655.500.608.550

Public Reporting of Healthcare Data

Required public availability of quality indicators data from health facilities.

Tree locations:

Quality Assurance, Health Care N05.700.712

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Pulmonary Arterial Hypertension

A progressive rare pulmonary disease characterized by high blood pressure in the PULMONARY ARTERY.

Tree locations:

Hypertension, Pulmonary C08.381.423.847

Pyruvate Dehydrogenase (Acetyl-Transferring) Kinase

A pyruvate dehydrogenase kinase isozyme located in the mitochondria which converts PYRUVATE to ACETYL CoA in the CITRIC ACID CYCLE, phosphorylates SERINE residues on pyruvate dehydrogenase using ATP, and plays a key role in the regulation of GLUCOSE and fatty acid metabolism.

Tree locations:

Protein-Serine-Threonine Kinases D08.811.913.696.620.682.700.783

Quaternary Prevention

Actions taken to protect individuals (i.e. persons/patients) from unnecessary medical interventions that are likely to cause more harm than good.

FX: Medical Overuse

Tree locations:

Delivery of Health Care N04.590.374.675
N05.300.703

Preventive Health Services N02.421.726.784
Public Health Practice N06.850.780.715

R-Loop Structures

An RNA-DNA hybrid structure formed when newly transcribed RNA remains bound to its DNA template. Stability of R-loops may play a role in GENETIC INSTABILITY.

Tree locations:

Nucleic Acid Conformation G02.111.570.820.486.690
G05.360.580.690

Randomized Controlled Trial, Veterinary (Pub Type)

A work that reports on a clinical trial with animal subjects that involves at least one test treatment and one control treatment, concurrent enrollment and follow-up of the test- and control-treated groups, and in which the treatments to be administered are selected by a random process, such as the use of a random-numbers table.

AN: this heading is used as a Publication Type; for original report of the conduct or results of a specific randomized veterinary clinical trial; a different heading CLINICAL TRIALS, VETERINARY AS TOPIC + RANDOMIZATION is used for general design, methodology, economics, etc. of randomized veterinary clinical trials

Tree locations:

Clinical Trial, Veterinary V03.175.375.500

Rapid Sequence Induction and Intubation

A method of maintaining airway patency and administering anesthesia during emergency situations when it cannot be determined if the patient is fasting or not; or in other instances where there is a risk of aspiration. The method includes a series of events that involve the administration of SEDATIVES to induce unconsciousness, followed by NEUROMUSCULAR BLOCK AGENTS to improve the intubating conditions, followed by endotracheal intubation.

Tree locations:

Intubation, Intratracheal E02.041.500.737
E02.585.578.737
E05.497.578.737

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Regulated Cell Death

Genetically encoded mechanisms in multicellular and unicellular eukaryotes that function to eliminate cells that are superfluous either during development, or to maintain tissue and organism homeostasis; and cells that are irreversibly damaged, abnormal, and/or potentially harmful.

AN: general or unspecified, prefer specifics

Tree locations:

Cell Death G04.146.954

Relational Autonomy

The social context within which all individuals exist and acknowledge the emotional and embodied aspects of decision-makers. The approach acknowledges the central role of others in decision-making, including clinicians, who have a responsibility to engage patients' and surrogates' emotional experiences.

Tree locations:

Personal Autonomy K01.752.566.479.830.650.500
N05.350.958.650.500

Relative Energy Deficiency in Sport

Health disorders associated with low caloric intake of individuals involved in high-activity SPORTS.

Tree locations:

Feeding and Eating Disorders F03.400.937

Retinal Arterial Macroaneurysm

An acquired dilation of the retinal artery often associated with systemic HYPERTENSION.

Tree locations:

Aneurysm C14.907.055.908
Hypertensive Retinopathy C11.768.346.500
C14.907.489.815.500

Ribosomal Protein L10

A RIBOSOMAL PROTEIN which plays a crucial role in protein synthesis and embryonic brain development. Diseases associated with RPL10 mutations include Mental Retardation, X-Linked, Syndromic, 35 and Autism X-Linked 5.

Tree locations:

Ribosome Subunits A11.284.430.214.190.875.811.870.350

Right to Health

Right to accessible health services physically within reach for all sections of the population, including children, adolescents, older persons, persons with disabilities and other vulnerable groups as well as financially and on the basis of non-discrimination. Accessibility also implies the right to seek, receive and impart health-related information in an accessible format for all, including persons with disabilities, but does not impair the right to have personal health data treated confidentially.

Tree locations:

Health Services Accessibility N04.590.374.350.750
Human Rights I01.880.604.473.688
N03.706.437.688

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Right to Work

The right of individuals to work, to free choice of employment, to just and favorable conditions of work and to protection against unemployment.

Tree locations:

Human Rights I01.880.604.473.694
N03.706.437.694

RNA-Seq

High-throughput nucleotide sequencing techniques developed for determining and analyzing the composition of the TRANSCRIPTOME of a sample.

Tree locations:

Gene Expression Profiling E05.393.332.250
High-Throughput Nucleotide Sequencing E05.393.760.319.500
Sequence Analysis, RNA E05.393.760.710.500

RNA, Circular

RNA molecules in which the 3' and 5' ends are covalently joined to form a closed continuous loop. They are resistant to digestion by EXORIBONUCLEASES.

Tree locations:

RNA D13.444.735.032

Rumination Syndrome

A gastrointestinal disorder characterized by repetitive and effortless regurgitation of ingested food from the stomach to the oral cavity in the early POSTPRANDIAL PERIOD. It is associated with functional gastrointestinal pathology (e.g., increased intra-gastric pressure) and psychiatric disorders (e.g., anxiety, depression). It is not limited to infants and distinct from GERD and VOMITING.

Tree locations:

Feeding and Eating Disorders F03.400.968
Gastrointestinal Diseases C06.405.609

Salads

A prepared mixture of cooked and/or raw vegetables, FRUIT, or other foods, garnished with a dressing CONDIMENT, and eaten as a MEAL or side dish.

Tree locations:

Food G07.203.300.756
J02.500.756

Sand

A hard granular material that is a component of soil. It is composed of very small pieces (between 0.06 and 2.0 millimeters in diameter) of disintegrating rock.

Tree locations:

Geologic Sediments G01.311.330.500
G16.500.320.500
Soil D20.721.750
G01.311.820.750
G16.500.275.815.750
N06.230.600.750

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Sapajus

A genus of the family CEBIDAE, subfamily CEBINAE, consisting of capuchin monkeys with characteristic tufts of hair over the eyes and sides of the head. Many were formerly classified under genus CEBUS. Sapajus inhabits the forests of Central and South America.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Cebinae B01.050.150.900.649.313.988.400.600.150.170.560

Sapajus apella

A species of the genus SAPAJUS, subfamily CEBINAE, family CEBIDAE, consisting of tufted capuchin monkeys with characteristic black head cap and sideburn coloration with tufts of dark fur above the ears. S. apella was known as Cebus apella and C. a. apella.

AN: NIM when experimental animal; diseases: coordinate with MONKEY DISEASES

Tree locations:

Sapajus B01.050.150.900.649.313.988.400.600.150.170.560.500

School Mental Health Services

Services which focus on the mental well-being of pre-college and pre-university students that include COUNSELING and therapy.

Tree locations:

Health Services Administration N04.880
Mental Health Services N02.421.461.581
School Health Services N02.421.726.809.659

Scope of Practice

The services that licensed professionals are deemed competent to perform, and permitted to undertake in keeping with the terms of their professional license.

Tree locations:

Professional Role F01.829.316.616.625.800

Sea Level Rise

An increase in the volume of the oceans and seas causing an elevation of the air-sea interface.

Tree locations:

Climate Change G16.500.175.374.750
Oceans and Seas G01.311.625.770
Water Movements G16.500.971.500

SecA Proteins

ATPases that provide energy for the translocation of proteins across bacterial PLASMA MEMBRANES and THYLAKOID membranes, by the SEC TRANSLOCATION CHANNELS. SecA is a component of the bacterial preprotein translocase which is comprised of SecA, the SECYEG TRANSLOCON, and the accessory domain proteins SecD, SecE, YajC, and YidC.

Tree locations:

Adenosine Triphosphatases D08.811.277.040.025.494

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Securinega

A plant genus of the family EUPHORBIACEAE, order MALPIGHIALES. Members contain securinine and virosecurinine compounds.

Tree locations:

Euphorbiaceae B01.650.940.800.575.912.250.859.797.438.781

Sennosides

Medications derived from SENNA EXTRACT that are used to treat CONSTIPATION.

Tree locations:

Glycosides D09.408.827
Senna Extract D02.455.426.559.847.117.159.750.500
D02.806.100.750.500
D20.215.784.500.860.500

Shape Memory Alloys

ALLOYS designed to recover their original shape upon heating.

Tree locations:

Alloys D01.552.033.769
D25.058.664
J01.637.051.058.664
Smart Materials D05.937.250
D25.860.250
D27.720.102.751.250
J01.637.051.860.250

Shared Medical Appointments

Clinical encounters in which patients receive healthcare from one or more health professionals, in a group setting. These may include patient education and counseling, physical examination, and clinical support. Patients usually share a mutual attribute such as a medical condition.

Tree locations:

Appointments and Schedules N04.452.095.369
Patient Care E02.760.823
Practice Management, Medical N04.452.758.708.450.750

Shoulder Dystocia

Obstetric complication during OBSTETRIC DELIVERY in which exit of the fetus is delayed due to physical obstruction involving fetal shoulder(s).

Tree locations:

Dystocia C13.703.420.288.364

Shwachman-Diamond Syndrome

An inherited syndrome characterized by EXOCRINE PANCREATIC INSUFFICIENCY; hematologic abnormalities (e.g., bone marrow hypoplasia), and skeletal abnormalities (e.g., metaphyseal chondroplasia). GERMLINE MUTATIONS in the SBDS gene are associated with Shwachman-Diamond Syndrome.

Tree locations:

Congenital Bone Marrow Failure Syndromes C15.378.190.223.500.875
Exocrine Pancreatic Insufficiency C06.689.276.500
Lipomatosis C18.452.584.718.875

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Sialyl Lewis X Antigen

A sialylated version of Lewis X antigen expressed on cell surfaces. It is a ligand for SELECTINS.

Tree locations:

Lewis X Antigen D23.050.285.050.050.500
D23.050.301.264.900.050.500
D23.050.301.264.965.500.500
D23.050.301.290.544.059.500
D23.050.550.325.050.500
D23.050.705.230.544.059.500
D23.101.100.900.050.500
D23.101.140.075.050.500

Single-Case Studies as Topic

Trials that consider an individual patient as the sole unit of observation in a study investigating the efficacy or side-effects of different interventions to determine the optimal intervention for an individual patient using objective data-driven criteria.

Tree locations:

Clinical Trials as Topic E05.318.372.250.250.682
N05.715.360.330.250.250.682
N06.850.520.450.250.250.682

Sino-Japanese War

Military conflict involving China and Japan 1937 - 1945.

Tree locations:

Armed Conflicts I01.880.735.950.250.868
History, 20th Century K01.400.504.968.725

Sino-Nasal Outcome Test

Patient-reported measure of outcome in sino-nasal disorders such as rhinosinusitis and nasal polyposis.

Tree locations:

Patient Reported Outcome Measures E05.318.308.980.344.500.500
N03.349.380.210.750.500
N04.761.559.590.399.875.500
N05.425.210.500.500
N05.715.360.300.800.344.500.500
N05.715.360.575.575.399.875.500
N06.850.520.308.980.344.500.500

SLC31 Proteins

Eukaryotic copper transport proteins that function primarily in the transport of dietary or environmental COPPER.

Tree locations:

Copper Transport Proteins D12.776.157.530.450.250.578.875
D12.776.543.585.450.250.578.875
Solute Carrier Proteins D12.776.157.530.937.640
D12.776.543.585.937.762

Smart Glasses

Computerized eyewear with multiple technological applications for advanced computing and interoperability. Smart glasses are optimized to facilitate information and data access, capture, display, transfer, and manipulation.

Tree locations:

Microcomputers L01.224.230.260.550.750
Wearable Electronic Devices E07.305.906.750

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Smart Materials

Materials designed to change properties in response to changes in their environment adopting various predetermined shapes and/or functionalities.

Tree locations:

Biomedical and Dental Materials D25.860
D27.720.102.751
J01.637.051.860
Macromolecular Substances D05.937

Social Integration

A dynamic and principled process where all members participate in dialogue to achieve and maintain peaceful social relations. It does not include coerced assimilation or forced integration. (from https://www.un.org/esa/socdev/sib/peacedialogue/soc_integration.htm)

Tree locations:

Interpersonal Relations F01.829.401.694

Space Research

Studies of interactions between living organisms and characteristics of the extraterrestrial environment. These studies specifically address the structure and function of living organisms in an extraterrestrial environment and interdependent relationships of organisms with each other and/or the extraterrestrial environment while also touching on the origin, evolution and potential for extraterrestrial life. (From www.nasa.gov/audience/foreducators/spacelife/)

FX: Exobiology

Tree locations:

Research H01.770.644.966

Specific Language Disorder

Language disorder that delays the mastery of oral language skills or in children who have no hearing loss or other developmental delays.

FX: Language Development Disorders

Tree locations:

Language Development Disorders C10.597.606.150.500.550.500
C23.888.592.604.150.500.550.500
Learning Disabilities C23.888.592.604.150.550.600

Sphingosine 1 Phosphate Receptor Modulators

Agents that affect the function of G-protein coupled SPHINGOSINE 1-PHOSPHATE RECEPTORS. Their binding to the receptors blocks lymphocyte migration and are often used as IMMUNOSUPPRESSANTS.

Tree locations:

Immunosuppressive Agents D27.505.696.477.656.875
Molecular Mechanisms of Pharmacological Action D27.505.519.947

Sphingosine Phosphorylcholine Receptors

A subfamily of lysophospholipid receptors with specificity for lysophosphatidic acid.

Tree locations:

Receptors, Lysosphingolipid D12.776.543.750.695.420.500.250

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Sphingosine-1-Phosphate Receptors

A subfamily of lysophospholipid receptors with specificity for sphingosine-1-phosphate (e.g., FINGOLIMOD), sphinganine 1-phosphate, 4-hydroxysphinganine 1-phosphate.

Tree locations:

Receptors, Lysosphingolipid D12.776.543.750.695.420.500.500

Squamous Intraepithelial Lesions

A cytological test finding that shows abnormal lesions of SQUAMOUS EPITHELIAL cells.

Tree locations:

Morphological and Microscopic Findings C23.149.688

Stargardt Disease

A juvenile-onset macular dystrophy characterized by progressive loss of VISUAL ACUITY with normal acuity in peripheral VISUAL FIELDS. Other associated clinical features may include LIPOFUSCIN fundus autofluorescence, atrophy of the RETINAL PIGMENT EPITHELIUM, loss of color vision, PHOTOPHOBIA and PARACENTRAL SCOTOMA. Germline mutations in the ABCA4 gene have been identified in recessive and dominant diseases.

Tree locations:

Eye Diseases, Hereditary C11.270.872
C16.320.290.724
Macular Degeneration C11.768.585.439.339

Stilbestrols

Stilbene derivatives the contain one or more hydroxyl groups attached to the benzene ring structures.

Tree locations:

Stilbenes D02.455.426.559.389.150.700.725

Stimuli Responsive Polymers

Polymeric materials designed to change properties in response to a stimulus.

Tree locations:

Polymers D05.750.950
D25.720.950
J01.637.051.720.950
Smart Materials D05.937.500
D25.860.500
D27.720.102.751.500
J01.637.051.860.500

Sudden Unexpected Death in Epilepsy

Sudden death in a patient with EPILEPSY associated with SEIZURES and seizure-related symptoms (e.g., APNEA; HYPOXEMIA) without other identifiable accidental causes (e.g., DROWNING; WOUNDS AND INJURIES).

Tree locations:

Death, Sudden C23.550.260.322.812
Epilepsy C10.228.140.490.746

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Sugar-Sweetened Beverages

Liquids or drinks sweetened with added sugars of various forms.

Tree locations:

Beverages G07.203.100.772
J02.200.772

Suicide, Completed

The successful attempt to kill oneself.

Tree locations:

Suicide F01.145.126.980.875.800
I01.880.735.856.800

Synesthesia

The experience of involuntary sensory cross activation where the presentation of a particular stimulus elicits a secondary sensory-perceptual experience. It most commonly occurs in the association of color with linguistic stimuli such as letters, numbers, words, or music, but can also occur between other senses. Although synesthesia can be acquired or transient due to trauma or drug use, there is also a strong genetic component, with a prevalence of about 1 in 2,000 individuals and a female to male ratio of 6:1.

Tree locations:

Perceptual Disorders C10.597.606.762.850

Synucleinopathies

Neurodegenerative disorders involving deposition of abnormal ALPHA-SYNUCLEIN in dopaminergic neurons and glial cells in the brain. Pathological aggregations of alpha-synuclein proteins results in LEWY BODIES and Lewy neurites; melanin granules in the SUBSTANTIA NIGRA and LOCUS COERULEUS; and glial cytoplasmic inclusions. Synucleinopathies are associated with mutation in the ALPHA-SYNUCLEIN (SNCA) gene on chromosome 4. PARKINSON DISEASE; LEWY BODY DISEASE with dementia; and MULTIPLE SYSTEM ATROPHY are prominent examples of synucleinopathy.

FX: alpha-Synuclein

FX: Lewy Bodies

Tree locations:

Neurodegenerative Diseases C10.574.928
Proteostasis Deficiencies C18.452.845.650

Tithonia

A genus of flowering plants in the ASTERACEAE family. It is found in MEXICO; CENTRAL AMERICA; and SOUTHWESTERN UNITED STATES.

Tree locations:

Asteraceae B01.650.940.800.575.912.250.100.906

Toxic Optic Neuropathy

Damage to the eye or its function (e.g., VISUAL IMPAIRMENT) due to OPTIC NERVE damage secondary to toxic substances such as drugs used in CHEMOTHERAPY; IMMUNOTHERAPY; or RADIATION.

Tree locations:

Drug-Related Side Effects and Adverse Reactions C25.100.937
 Optic Nerve Injuries C10.292.200.750.500
 C10.292.700.475.500
 C10.900.300.218.550.500
 C11.640.530.500
Pathologic Processes C23.550.877
 Radiation Injuries C26.733.902
 G01.750.748.500.902

New MeSH Headings for 2020

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Trichothecenes, Type A

A subclass of Trichothecene derivatives that include the 12,13-epoxytrichothec-9-ene structure of the molecule with the C-8 position containing either no oxygen substitution, a hydroxyl group at C-8, or an ester function at C-8.

Tree locations:

Trichothecenes D02.455.849.765.850.950
D04.345.891.950
D23.946.587.933.950

Trichothecenes, Type B

A subclass of Trichothecene derivatives that include the 12,13-epoxytrichothec-9-ene structure with a keto (carbonyl) function at C-8.

Tree locations:

Trichothecenes D02.455.849.765.850.975
D04.345.891.963
D23.946.587.933.975

Trichothecenes, Type C

A subclass of Trichothecene derivatives that includes the 12,13-epoxytrichothec-9-ene structure with an epoxide oxygen bond to the C7 and C8 carbon atoms.

Tree locations:

Trichothecenes D02.455.849.765.850.987
D04.345.891.975
D23.946.587.933.987

Tumor Necrosis Factor Inhibitors

Compounds or agents that bind to and inhibit the synthesis or activity of TUMOR NECROSIS FACTOR-alpha. Such agents are used to treat inflammatory bowel diseases and other inflammatory diseases.

Tree locations:

Anti-Inflammatory Agents D27.505.954.158.757

Twinning, Dizygotic

The development of two genetically distinct EMBRYOS in a single UTERUS at the same time, from two separate OVA fertilized by two separate SPERMATOZOA.

Tree locations:

Twinning, Embryonic G08.686.784.170.104.625.500

Twinning, Embryonic

The development of two EMBRYOS in a single UTERUS at the same time.

Tree locations:

Embryonic Development G08.686.784.170.104.625

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Undiagnosed Diseases

Rare and common diseases lacking a diagnosis.

FX: Delayed Diagnosis

Tree locations:

Disease Attributes C23.550.291.968

Univentricular Heart

Rare congenital heart malformation with a single ventricle (HEART VENTRICLES) instead of the usual two.

Tree locations:

Heart Defects, Congenital C14.240.400.990
C14.280.400.990
C16.131.240.400.975

Universal Design

The design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaption or specialized design.

Tree locations:

Architecture J01.086.669
Engineering J01.293.910
Environment Design I01.880.709.359.500

Universal Health Care

Access for all people to needed health services (including prevention, promotion, treatment, rehabilitation and palliation) of sufficient quality to be effective while also ensuring that the use of these services does not expose the user to financial hardship. (From https://www.who.int/healthsystems/universal_health_coverage/en/)

Tree locations:

Health Services Accessibility N04.590.374.350.875
Health Services Administration N04.940
Social Control, Formal N03.706.871

Uveal Effusion Syndrome

Rare disease characterized by suprachoroidal fluid accumulation between the CHOROID and the SCLERA, annular detachment of the CHOROID, often with secondary RETINAL DETACHMENT; OPTIC DISK EDEMA, and minimal signs of UVEITIS and INTRAOCULAR PRESSURE changes.

Tree locations:

Choroidal Effusions C11.250.105.500
C11.941.160.241.500

Vaccine Excipients

Media added to a vaccine for a specific purpose. These include: preservatives to prevent contamination, adjuvants to stimulate a stronger immune response, and stabilizers. (From <https://www.cdc.gov/vaccines/pubs/pinkbook/downloads/appendices/b/excipient-table-2.pdf>)

Tree locations:

Excipients D27.720.744.770.419.500
Pharmaceutic Aids D26.650.800

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Vaccine-Preventable Diseases

Diseases for which vaccines exist that can confer partial or complete protection. (World Health Organization vaccine-safety-training.org)

Tree locations:

Infections C01.918

Vector Borne Diseases

Infectious diseases transmitted by DISEASE VECTORS.

AN: general or unspecified; prefer specific

Tree locations:

Infections C01.920

Veterans Health Services

Services organized for the diagnosis and treatment of diseases and maintenance of health primarily of VETERANS.

Tree locations:

Health Services N02.421.917

Organization and Administration N04.452.524

WAP Four-Disulfide Core Domain Protein 2

A secreted 25-kDa glycoprotein member of the Whey-acidic-protein (WAP) four-disulfide core (WFDC) domain family with tissue specific expression in the EPIDIDYMISS. It is also expressed in a limited number of other organs which include female reproductive tract, breast tissue, kidney, regions of the respiratory tract and nasopharynx. The protein is a biomarker for epithelial ovarian cancer.

Tree locations:

Epididymal Secretory Proteins D12.776.298.500

Wastewater-Based Epidemiological Monitoring

Sampling of the liquids generated from industrial processes, sanitary fixtures and appliances, food handling, etc., to collect and analyze epidemiological information (such as pathogen levels, or concentrations of pesticides, pharmaceuticals, or other substances) from metabolic excretion products, household liquid wastes, and industrial wastes.

FX: Environmental Monitoring

FX: Biological Monitoring

Tree locations:

Epidemiological Monitoring E05.318.375.500

N06.850.520.460.500

Water Decolorization

The removal of DYES; STAINS; or other COLORING AGENTS, natural or synthetic, from water sources by various processes such as ADSORPTION; BIOREMEDIATION; enzymatic digestion; and ELECTROLYSIS.

FX: Coloring Agents

Tree locations:

Water Purification N06.850.780.200.800.800.900.900.500

N06.850.860.510.900.900.500

New MeSH Headings for 2020

Listed in alphabetical order with Heading, Scope Note, Annotation (AN), Previous Indexing (PI), See Also (FX), and Tree Locations

Weight Prejudice

Negative attitudes towards and beliefs about others because of their weight. These negative attitudes are manifested by stereotypes and/or prejudice towards people with weight over or under a cultural norm.

Tree locations:

Prejudice F01.145.813.550.813
F01.829.595.813

White Dot Syndromes

A group of idiopathic multifocal posterior uveitis syndromes involving the CHOROID; RETINAL PIGMENT EPITHELIUM; and RETINA. They are characterized by multiple lesions of hypoautofluorescent dots in the FUNDUS OCULI and reduced VISUAL ACUITY. Several entities including BIRDSHOT CHORIORETINOPATHY are HLA-A ANTIGENS serotype A29 positive.

Tree locations:

Uveitis, Posterior C11.941.879.780.900.650