

## New MeSH Headings for 2019

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

### 17 alpha-Hydroxyprogesterone Caproate

Hydroxyprogesterone derivative that acts as a PROGESTIN and is used to reduce the risk of recurrent MISCARRIAGE and of PREMATURE BIRTH. It is also used in combination with ESTROGEN in the management of MENSTRUATION DISORDERS.

**Tree locations:**

17-alpha-Hydroxyprogesterone D04.210.500.745.745.654.829.395.400.500  
D06.472.334.851.687.750.478.400.250

### 2-Methoxyestradiol

A metabolite of estradiol that lacks estrogenic activity and inhibits TUBULIN polymerization. It has antineoplastic properties, including inhibition of angiogenesis and induction of APOPTOSIS.

**Tree locations:**

Estradiol D04.210.500.365.415.248.830  
D06.472.334.851.437.500.750

### 5-Methoxypsoralen

A linear furanocoumarin that has phototoxic and anti-inflammatory properties, with effects similar to METHOXSALEN. It is used in PUVA THERAPY for the treatment of PSORIASIS.

**Tree locations:**

Furocoumarins D03.383.663.283.446.794.688  
D03.633.100.150.446.794.688  
D03.633.300.770.688

### Abciximab

A Fab fragment of the chimeric monoclonal antibody 7E3 that binds to the glycoprotein IIb-IIIa receptor of human platelets, and blocks PLATELET GLYCOPROTEIN GPIIB-IIIA COMPLEX, potently inhibiting PLATELET AGGREGATION. It is used in treatment of refractory unstable angina, and for prevention of ischemic complications in patients undergoing percutaneous coronary procedures such as ANGIOPLASTY; ATHERECTOMY; or stenting.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.125  
D12.776.124.790.651.114.224.060.125  
D12.776.377.715.548.114.224.200.125  
Immunoglobulin Fab Fragments D12.644.541.500.650.125  
D12.776.124.486.485.680.650.125  
D12.776.124.790.651.680.650.125  
D12.776.377.715.548.680.650.125

### Acamprosate

Structural analog of taurine that is used for the prevention of relapse in individuals with ALCOHOLISM.

**Tree locations:**

Taurine D02.455.326.146.100.850.438  
D02.886.645.600.055.850.400

### Adenocarcinoma of Lung

A carcinoma originating in the lung and the most common lung cancer type in never-smokers. Malignant cells exhibit distinct features such as glandular epithelial, or tubular morphology. Mutations in KRAS, EGFR, BRAF, and ERBB2 genes are associated with this cancer.

AN: coordinate IM with LUNG NEOPLASMS (IM)

**Tree locations:**

Adenocarcinoma C04.557.470.200.025.022  
Lung Neoplasms C04.588.894.797.520.055

## New MeSH Headings for 2019

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

### Adverse Childhood Experiences

Deleterious experiences in first 18 years of life.

PI: Violence (2000-2018)

#### Tree locations:

Social Problems I01.880.735.035  
Sociological Factors I01.880.853.050  
Violence I01.198.240.856.175  
I01.880.735.900.175

### Aegilops

A genus of grasses known generally as goatgrasses, presumed to be wild ancestors of domestic WHEAT. They belong to the grass family, POACEAE, and are distributed widely in Eurasia and North America.

PI: Triticum (2001-2018)

PI: Poaceae (2001-2018)

#### Tree locations:

Poaceae B01.650.940.800.575.912.250.822.017

### Afatinib

A quinazoline and butenamide derivative that acts as a tyrosine kinase inhibitor of epidermal growth factor receptors (ERBB RECEPTORS) and is used in the treatment of metastatic NON-SMALL CELL LUNG CANCER.

#### Tree locations:

Amides D02.065.132  
Quinazolines D03.633.100.786.188

### Agammaglobulinaemia Tyrosine Kinase

A non-receptor tyrosine kinase that is essential for the development, maturation, and signaling of B-LYMPHOCYTES. It contains an N-terminal zinc finger motif and localizes primarily to the PLASMA MEMBRANE and nucleus of B-lymphocytes. Mutations in the gene that encode this kinase are associated with X-LINKED AGAMMAGLOBULINEMIA.

#### Tree locations:

Protein-Tyrosine Kinases D08.811.913.696.620.682.725.025

### Aggressive Driving

Combination of moving traffic offenses so as to endanger other persons or property. (<https://nhtsa.gov/Driving-Safety/Aggressive-Driving>)

PI: Automobile Driving (2000-2018)

#### Tree locations:

Automobile Driving I03.125.150  
Dangerous Behavior I01.880.735.223.125

### Alefacept

A recombinant human fusion protein of LFA-3 antigen and immunoglobulin IGG1 that binds to CD2 ANTIGENS on memory T-LYMPHOCYTES, preventing their activation and proliferation. It is used in the management of moderate to severe chronic plaque PSORIASIS.

#### Tree locations:

CD58 Antigens D12.776.395.550.034.500  
D12.776.543.550.158.500  
Immunoglobulin G D12.776.124.486.485.114.619.393.131  
D12.776.124.790.651.114.619.393.131  
D12.776.377.715.548.114.619.393.131  
Recombinant Fusion Proteins D12.776.828.300.100

## New MeSH Headings for 2019

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

### Alginic Acid

A polysaccharide and linear copolymer, consisting mainly of beta-1,4-linked D-mannuronic acid and alpha-1,4-linked L-glucuronic acid, that occurs in marine algae such as LAMINARIA, and in BIOFILMS produced by PSEUDOMONAS AERUGINOSA.

#### Tree locations:

Alginates D09.698.068.500  
Glucuronic Acid D02.241.081.844.915.162.249.500  
D02.241.152.811.162.500.500  
D02.241.511.902.915.162.500.500  
D09.811.922.162.500.500  
Hexuronic Acids D02.241.081.844.915.400.250  
D02.241.152.811.400.250  
D02.241.511.902.915.400.250  
D09.811.922.400.250

### Alitretinoin

A retinoid that is used for the treatment of chronic hand ECZEMA unresponsive to topical CORTICOSTEROIDS. It is also used to treat cutaneous lesions associated with AIDS-related KAPOSII SARCOMA.

#### Tree locations:

Tretinoin D02.455.326.271.665.202.495.818.500.500  
D02.455.426.392.368.367.379.249.700.860.500.500  
D02.455.849.131.495.818.800.500  
D23.767.261.700.780.500

### Allogeneic Cells

Cells from genetically different individuals of the same species to be used for CELL- AND TISSUE-BASED THERAPY; ADOPTIVE CELL TRANSFER; or ADOPTIVE IMMUNOTHERAPY.

#### Tree locations:

Allografts A01.941.500.500  
Cells A11.047

### Aluminum Chloride

A compound with the chemical formula  $AlCl_3$ ; the anhydrous salt is used as a catalyst in organic chemical synthesis, and hydrated salts are used topically as antiperspirants, and for the management of HYPERHYDROSIS.

#### Tree locations:

Aluminum Compounds D01.056.031  
Chlorides D01.210.450.150.025

### Amifampridine

4-Aminopyridine derivative that acts as a POTASSIUM CHANNEL blocker to increase release of ACETYLCHOLINE from nerve terminals. It is used in the treatment of CONGENITAL MYASTHENIC SYNDROMES.

#### Tree locations:

4-Aminopyridine D02.092.080.060.500  
D03.383.725.050.060.500

### Amisulpride

A benzamide derivative that is used as an antipsychotic agent for the treatment of schizophrenia. It is also used as an antidepressive agent.

#### Tree locations:

Benzamides D02.065.277.034  
D02.241.223.100.100.110  
D02.455.426.559.389.127.085.084

## New MeSH Headings for 2019

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

### **Anaplastic Lymphoma Kinase**

A receptor tyrosine kinase that is essential for development and differentiation of the nervous system in response to secreted growth factors. It phosphorylates the first tyrosine of the Y-x-x-x-Y-Y motif of targets that include PROTO-ONCOGENE PROTEINS C-CBL; INSULIN RECEPTOR SUBSTRATE-1; and MITOGEN-ACTIVATED PROTEIN KINASES, leading to activation of the MAPK signaling pathway and cell proliferation. A chromosomal aberration involving the ALK gene results in its constitutive expression in some cases of NON-HODGKIN LYMPHOMA.

**Tree locations:**

Receptor Protein-Tyrosine Kinases D08.811.913.696.620.682.725.400.002  
D12.776.543.750.630.002

### **Anastrozole**

A nitrile and triazole derivative that acts as a selective nonsteroidal aromatase inhibitor. It is used in the treatment of ESTROGEN NUCLEAR RECEPTOR-positive breast cancer in postmenopausal women.

**Tree locations:**

Nitriles D02.626.218  
Triazoles D03.383.129.799.275

### **Anidulafungin**

Echinocandin antifungal agent that is used in the treatment of CANDIDEMIA and CANDIDIASIS.

**Tree locations:**

Echinocandins D12.644.641.311.250

### **Apium**

A genus comprising several species of flowering plants with global distribution in the family APIACEAE.

**Tree locations:**

Apiaceae B01.650.940.800.575.912.250.075.094

### **Aprepitant**

A morpholine neurokinin-1 (NK1) receptor antagonist that is used in the management of nausea and vomiting caused by DRUG THERAPY, and for the prevention of POSTOPERATIVE NAUSEA AND VOMITING.

**Tree locations:**

Morpholines D03.383.533.640.125

### **Arsenic Trioxide**

An inorganic compound with the chemical formula As<sub>2</sub>O<sub>3</sub> that is used for the treatment of ACUTE PROMYELOCYTIC LEUKEMIA in patients who have relapsed from, or are resistant to, conventional drug therapy.

**Tree locations:**

Arsenicals D01.075.038  
Oxides D01.650.550.125

## New MeSH Headings for 2019

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

### Artemether

An artemisinin derivative that is used in the treatment of MALARIA.

#### Tree locations:

Artemisinins D01.248.497.158.685.750.212.250  
D01.339.431.374.212.250  
D01.650.550.750.200.250  
D02.389.338.055.250  
D02.455.849.765.211.250

### Artemether, Lumefantrine Drug Combination

Drug combination of artemether and lumefantrine that is used to treat PLASMODIUM FALCIPARUM MALARIA.

#### Tree locations:

Artemether D01.248.497.158.685.750.212.250.500  
D01.339.431.374.212.250.500  
D01.650.550.750.200.250.500  
D02.389.338.055.250.500  
D02.455.849.765.211.250.500  
Drug Combinations D26.310.110  
Lumefantrine D02.455.426.559.847.389.650.500  
D04.615.389.650.500

### Artesunate

A water-soluble, semi-synthetic derivative of the sesquiterpene lactone artemisinin with anti-malarial, anti-schistosomiasis, antiviral, and potential anti-neoplastic activities

#### Tree locations:

Artemisinins D01.248.497.158.685.750.212.500  
D01.339.431.374.212.500  
D01.650.550.750.200.500  
D02.389.338.055.500  
D02.455.849.765.211.500

### Atrasentan

A pyrrolidine and benzodioxole derivative that acts a RECEPTOR, ENDOTHELIN A antagonist. It has therapeutic potential as an antineoplastic agent and for the treatment of DIABETIC NEPHROPATHIES.

#### Tree locations:

Benzodioxoles D03.383.246.118.300  
D03.633.100.115.300  
Pyrrolidines D03.383.773.079

### Austrobaileyales

Order of woody flowering plants which grow as trees and shrubs that include the genera, Illicium and Schisandra.

#### Tree locations:

Magnoliopsida B01.650.940.800.575.912.250.103

## New MeSH Headings for 2019

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

### Axitinib

A benzamide and indazole derivative that acts as a TYROSINE KINASE inhibitor of the VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR. It is used in the treatment of advanced RENAL CELL CARCINOMA.

**Tree locations:**

Benzamides D02.065.277.051  
D02.241.223.100.100.115  
D02.455.426.559.389.127.085.093  
Indazoles D03.383.129.539.487.065  
D03.633.100.449.065

### Basiliximab

A chimeric murine-human monoclonal antibody that functions as an INTERLEUKIN 2 RECEPTOR antagonist by binding to the alpha chain (CD25 ANTIGEN) of the interleukin-2 receptor on the surface of activated T-LYMPHOCYTES. It is used in the prevention of acute graft rejection episodes in patients undergoing renal transplantation.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.344  
D12.776.124.790.651.114.224.060.407  
D12.776.377.715.548.114.224.200.407

### Becaplermin

A recombinant human platelet-derived growth factor B-chain dimer used to promote WOUND HEALING by stimulating PHYSIOLOGIC ANGIOGENESIS.

**Tree locations:**

Proto-Oncogene Proteins c-sis D12.644.276.910.650.500  
D12.776.260.690.500  
D12.776.467.910.650.500  
D23.529.910.650.500

### Bexarotene

A tetrahydronaphthalene derivative and RETINOID X RECEPTOR antagonist that is used in the treatment of CUTANEOUS T-CELL LYMPHOMA.

**Tree locations:**

Retinoids D02.455.326.271.665.202.495.150  
D02.455.426.392.368.367.379.249.700.135  
D02.455.849.131.495.150  
Tetrahydronaphthalenes D02.455.426.559.847.638.960.423  
D04.615.638.960.423

### Big Data

Extremely large amounts of data which require rapid and often complex computational analyses to reveal patterns, trends, and associations, relating to various facets of human and non-human entities.

**Tree locations:**

Information Systems L01.313.500.750.300.092

## New MeSH Headings for 2019

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

### **Biom mineralization**

Process by which living organisms produce MINERALS that accumulate into hardened tissues (e.g., bones, teeth and shells), and cellular nanostructures that sequester away into macromolecules. Biosynthesized minerals include CALCIUM CARBONATE; FLUOROAPATITE; HYDROXYAPATITE; and MAGNETITE.

PI: Biochemical Phenomena (1986-2018)

PI: Minerals (1973-2018)

#### **Tree locations:**

Biochemical Phenomena G02.111.092

Growth and Development G07.345.155

Musculoskeletal Development G07.345.500.325.377.625.050

G11.427.578.050

### **Birth Setting**

Physical setting or location of birth.

#### **Tree locations:**

Parturition G08.686.784.769.490.062

### **Body-Weight Trajectory**

A general pattern of body weight gain or loss over many years. Weight change trajectory is influenced by several determinants in children and adults.

#### **Tree locations:**

Body Weight Changes C23.888.144.243.463

G07.345.249.314.120.200.463

### **Bone-Anchored Prosthesis**

A prosthesis designed to attach directly to the bone via fixtures implanted into the bone rather than a socket.

PI: Prostheses and Implants (1987-2018)

#### **Tree locations:**

Prostheses and Implants E07.695.118

### **Bosentan**

A sulfonamide and pyrimidine derivative that acts as a dual endothelin receptor antagonist used to manage PULMONARY HYPERTENSION and SYSTEMIC SCLEROSIS.

#### **Tree locations:**

Pyrimidines D03.383.742.060

Sulfonamides D02.065.884.135

D02.886.590.700.143

### **Brugmansia**

A small to mid-size tree with large, strong-smelling, trumpet-shaped flowers hanging downward. Most parts of the plant contain ATROPINE, SCOPOLAMINE HYDROBROMIDE and HYOSCYAMINE. It is used as poisons and medicines in S. America.

PI: Solanaceae (1963-2018)

#### **Tree locations:**

Solanaceae B01.650.940.800.575.912.250.908.500.097

## New MeSH Headings for 2019

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

### Built Environment

The man-made physical elements of the environment (e.g., homes, buildings, streets, open spaces, and infrastructure). The built environment influences a person's level of physical activity and may have other impacts on health in a community.

**Tree locations:**

Environment Design N06.230.145.500

### Burnout, Psychological

An excessive reaction to stress caused by one's environment that may be characterized by feelings of emotional and physical exhaustion, coupled with a sense of frustration and failure.

PI: Burnout, Professional (1983-2018)

PI: Stress, Psychological (1977-2018)

**Tree locations:**

Stress, Psychological F01.145.126.990.367  
F02.830.900.333

### Cabergoline

An ergoline derivative and dopamine D2-agonist that inhibits PROLACTIN secretion. It is used in the management of HYPERPROLACTINEMIA, and to suppress lactation following childbirth for medical reasons. Cabergoline is also used in the management of PARKINSON DISEASE.

**Tree locations:**

Ergolines D03.132.327.287.131  
D03.633.400.439.197

### Calcitonin Gene-Related Peptide Receptor Antagonists

Pharmacologic agents that block NOCICEPTIVE PAIN signaling from CALCITONIN GENE-RELATED PEPTIDE RECEPTORS. They may be useful for the treatment of pain associated with MIGRAINE DISORDERS and OSTEOARTHRITIS.

**Tree locations:**

Analgesics D27.505.696.663.850.014.610  
D27.505.954.427.040.409  
Molecular Mechanisms of Pharmacological Action D27.505.519.270

### Calcium Aluminosilicate

Aluminosilicate salts of calcium, the most common of which are  $\text{CaAl}_2\text{Si}_2\text{O}_8$  and  $\text{Ca}_2\text{Al}_2\text{SiO}_7$ ; a naturally occurring form in CLAY may be used to treat DIARRHEA.

**Tree locations:**

Aluminum Silicates D01.056.050.075.225  
D01.578.725.025.225  
D01.650.550.050.075.225  
D01.837.725.700.760.050.250

### Calcium-Regulating Hormones and Agents

Hormones and molecules with calcium regulating hormone-like actions that modulate OSTEOLYSIS and other extra-skeletal activities to maintain calcium homeostasis.

**Tree locations:**

Physiological Effects of Drugs D27.505.696.260



## New MeSH Headings for 2019

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

### Carbamide Peroxide

A urea peroxide compound that is commonly used in tooth whitening agents; topical anti-infective agents, and earwax remover.

**Tree locations:**

Peroxides D01.248.497.158.685.750.318  
D01.339.431.374.318  
D01.650.550.750.300  
D02.389.338.154  
Urea D02.948.278

### Carbon Fiber

Fiber with a diameter of approximately 5 to 10 micrometers that is composed mostly of carbon atoms. It has a variety of applications.

**Tree locations:**

Carbon D01.268.150.038  
Polymers D05.750.139  
D25.720.150  
J01.637.051.720.150

### Carcinoma, Ovarian Epithelial

A malignant neoplasm that originates in cells on the surface EPITHELIUM of the ovary and is the mostcommon form of ovarian cancer. There are five histologic subtypes: papillary serous, endometrioid,mucinous, clear cell, and transitional cell. Mutations in BRCA1, OPCML, PRKN, PIK3CA, AKT1, CTNNB1, RRAS2, and CDH1 genes are associated with this cancer.

AN: coordinate IM with OVARIAN NEOPLASMS (IM)

**Tree locations:**

Carcinoma C04.557.470.200.295  
Ovarian Neoplasms C04.588.322.455.199  
C13.351.500.056.630.705.350  
C13.351.937.418.685.350  
C19.344.410.199  
C19.391.630.705.350

### Carvedilol

A carbazole and propanol derivative that acts as a non-cardioselective beta blocker and vasodilator. It has blocking activity for ALPHA 1 ADRENERGIC RECEPTORS and, at higher doses, may function as a blocker of CALCIUM CHANNELS; it also has antioxidant properties. Carvedilol is used in the treatment of HYPERTENSION; ANGINA PECTORIS; and HEART FAILURE. It can also reduce the risk of death following MYOCARDIAL INFARCTION.

**Tree locations:**

Carbazoles D03.633.100.473.144.125  
D03.633.300.148.125  
Propanolamines D02.033.100.624.151  
D02.033.755.624.151  
D02.092.063.624.151

### Caspian Sea

The largest inland body of water, located between ASIA and EUROPE.

**Tree locations:**

Lakes G01.311.580.500

## New MeSH Headings for 2019

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

### **Caspofungin**

A cyclic lipopeptide echinocandin and beta-(1,3)-D-glucan synthase inhibitor that is used to treat internal or systemic MYCOSES.

**Tree locations:**

Echinocandins D12.644.641.311.500  
Lipopeptides D10.477.250  
D12.644.365.250

### **Catalog, Commercial (*Pub Type*)**

Lists of merchandise for sale.

AN: This heading is used as a Publication Type. Works on Commercial Catalogs as a subject are indexed under the main heading CATALOGS, COMMERCIAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Catalog V02.240.100

### **Catalog, Drug (*Pub Type*)**

Lists of drugs for sale.

AN: This heading is used as a Publication Type. Works on Drug Catalogs as a subject are indexed under the main heading CATALOGS, DRUG AS TOPIC. INDEXER: Do not use

**Tree locations:**

Catalog V02.240.125

### **Catalog, Union (*Pub Type*)**

Lists of books and other information sources held among a cooperating group of LIBRARIES.

AN: This heading is used as a Publication Type. Works on Union Catalogs as a subject are indexed under the main heading CATALOGS, UNION AS TOPIC. INDEXER: Do not use

**Tree locations:**

Catalog V02.240.313

### **Cauda Equina Syndrome**

Compressive lesion affecting the nerve roots of the CAUDA EQUINA (e.g., compression, herniation, inflammation, rupture, or stenosis), which controls the function of the bladder and bowel. Symptoms may include neurological dysfunction of bladder or bowels, loss of sexual sensation and altered sensation or paralysis in the lower extremities.

**Tree locations:**

Nerve Compression Syndromes C10.668.829.550.350  
Polyradiculoneuropathy C10.668.829.800.750.150

### **Cefdinir**

A third-generation oral cephalosporin antibacterial agent that is used to treat bacterial infections of the respiratory tract and skin.

**Tree locations:**

Cephalosporins D02.065.589.099.249.169  
D02.886.665.074.169  
D03.633.100.300.249.169

## New MeSH Headings for 2019

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

### **Cefepime**

A fourth-generation cephalosporin antibacterial agent that is used in the treatment of infections, including those of the abdomen, urinary tract, respiratory tract, and skin. It is effective against PSEUDOMONAS AERUGINOSA and may also be used in the empiric treatment of FEBRILE NEUTROPENIA.

**Tree locations:**

Cephalosporins D02.065.589.099.249.173  
D02.886.665.074.173  
D03.633.100.300.249.173

### **Ceftibuten**

A cephalosporin antibacterial agent that is used in the treatment of infections, including urinary-tract and respiratory-tract infections.

**Tree locations:**

Cephalosporins D02.065.589.099.249.187  
D02.886.665.074.187  
D03.633.100.300.249.187

### **Cetrimonium**

Cetyltrimethylammonium compound whose salts and derivatives are used primarily as topical antiseptics.

**Tree locations:**

Cetrimonium Compounds D02.092.877.883.111.500  
D02.675.276.190.500

### **Change Management**

Processes, tools, and techniques involved in the management of ORGANIZATIONAL INNOVATION, the purpose of which is to help individuals and work groups make successful personal transitions which ensure overall successful outcomes.

**Tree locations:**

Organizational Innovation N04.452.610.125

### **Child Labor**

Employment of MINORS in work that deprives children of their childhood, potential, dignity, and is harmful to their physical and mental development. (International Labor Organization, UN)

**Tree locations:**

Employment N01.824.245.263  
Social Problems I01.880.735.105

### **Chlorophyceae**

A class of green algae in the subdivision CHLOROPHYTINA distinguished by its ultrastructural morphology. Some species have distinct arrangement of flagella.

**Tree locations:**

Chlorophyta B01.650.940.150.511

## New MeSH Headings for 2019

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

### Chlorophyll A

A form of chlorophyll that absorbs light in the violet to red spectrum (approximately 400-700 nm wavelength range) and reflects green light (500-570 nm wavelength), which imparts the characteristic green color to land plants. It is essential for oxygenic PHOTOSYNTHESIS.

**Tree locations:**

Chlorophyll D03.383.129.578.840.374.140  
D03.383.129.578.840.500.640.220.140  
D03.633.400.909.374.140  
D03.633.400.909.500.640.220.140  
D04.345.783.374.140  
D04.345.783.500.640.220.140  
D23.767.727.640.220.140

### Chondrosarcoma, Clear Cell

A chondrosarcoma of adolescence to old age of the proximal EPIPHYSES of long bones. It has variably clear cytoplasm of the mostly neoplastic CHONDROCYTES with little intervening matrix.

AN: coordinate IM with BONE NEOPLASMS (IM) or specific precoordinated bone/neoplasm term (IM) or specific bone (IM) + BONE NEOPLASMS (IM)

PI: Sarcoma, Clear Cell (2003-2018)
-------------------------------------

PI: Chondrosarcoma (2015-2018)
--------------------------------

PI: Bone Neoplasms (2005-2018)
--------------------------------

**Tree locations:**

Chondrosarcoma C04.557.450.565.280.140  
C04.557.450.795.300.140

### Ciclopirox

A cyclohexane and pyridinone derivative that is used for the treatment of fungal infections of the skin and nails, and for treatment of VAGINAL YEAST INFECTIONS.

**Tree locations:**

Cyclohexanes D02.455.426.392.368.367.095  
Pyridones D03.383.725.791.199

### Cidofovir

An acyclic nucleoside phosphonate that acts as a competitive inhibitor of viral DNA polymerases. It is used in the treatment of RETINITIS caused by CYTOMEGALOVIRUS INFECTIONS and may also be useful for treating HERPESVIRUS INFECTIONS.

**Tree locations:**

Cytosine D03.383.742.698.421.216  
Organophosphonates D02.705.429.437

### Cilastatin, Imipenem Drug Combination

Combination of imipenem and cilastatin that is used in the treatment of bacterial infections; cilastatin inhibits renal dehydropeptidase I to prolong the half-life and increase the tissue penetration of imipenem, enhancing its efficacy as an anti-bacterial agent.

**Tree locations:**

Cilastatin D02.455.426.392.368.533.200.500  
D10.251.355.325.200.500  
Drug Combinations D26.310.356  
Imipenem D02.065.589.099.124.300.500.500  
D03.633.100.300.124.300.500.500

## New MeSH Headings for 2019

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

### Cilostazol

A quinoline and tetrazole derivative that acts as a phosphodiesterase type 3 inhibitor, with anti-platelet and vasodilating activity. It is used in the treatment of PERIPHERAL VASCULAR DISEASES; ISCHEMIC HEART DISEASE; and in the prevention of stroke.

**Tree locations:**

Quinolines D03.633.100.810.069  
Tetrazoles D03.383.129.617.293

### Ciona

A genus of SEA SQUIRTS in the family Cionidae.

PI: Urochordata (1988-2018)

**Tree locations:**

Urochordata B01.050.150.200.727.150  
B01.050.500.272.727.150

### Clay

A naturally occurring rock or soil constituent characterized by particles with a diameter of less than 0.005 mm. It is composed primarily of hydrous aluminum silicates, trace amounts of metal OXIDES, and organic matter.

**Tree locations:**

Soil D20.721.250  
G01.311.820.250  
G16.500.275.815.250  
N06.230.600.250

### Clinical Observation Units

A hospital unit that serves as a dedicated observation area for emergency room patients when a decision to admit or not is unclear. Also known as clinical decision units or short-stay observation units.

**Tree locations:**

Hospital Units N02.278.388.075

### Clinical Trial Protocol (*Pub Type*)

The written description of a clinical study. It contains the study's objectives, design, and methods including subject target and/or enrollment criteria. It may also present relevant scientific background and statistical information.

**Tree locations:**

Clinical Study V03.175.313

### Clinical Trial Protocols as Topic

Works about the written descriptions of a clinical study. It contains the study's objectives, design, and methods including subject target and/or enrollment criteria. It may also present relevant scientific background and statistical information.

**Tree locations:**

Clinical Protocols N05.715.360.330.125.625

## New MeSH Headings for 2019

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

### Clinical Trial, Veterinary (*Pub Type*)

A work that is a veterinary clinical study in which animal participants are assigned to receive one or more interventions so that researchers can evaluate the interventions on biomedical or health-related outcomes. The assignments are determined by the study protocol. Animal participants may receive diagnostic, therapeutic, or other types of interventions.

PI: Clinical Trial (1996-2018)

#### **Tree locations:**

Clinical Study V03.175.375

### Clinical Trials, Veterinary as Topic

Works about clinical studies in which animal participants are assigned to receive one or more interventions so that researchers can evaluate the interventions on biomedical or health-related outcomes. The assignments are determined by the study protocol. Animal participants may receive diagnostic, therapeutic, or other types of interventions.

PI: Clinical Trial (1996-2018)

#### **Tree locations:**

Clinical Studies as Topic E05.318.372.250.375  
N05.715.360.330.250.375  
N06.850.520.450.250.375

### Clobazam

A benzodiazepine derivative that is a long-acting GABA-A RECEPTOR agonist. It is used as an antiepileptic in the treatment of SEIZURES, including seizures associated with LENNOX GASTAUT SYNDROME. It is also used as an anxiolytic, for the short-term treatment of acute ANXIETY.

#### **Tree locations:**

Benzodiazepines D03.633.100.079.080.165

### Clofarabine

An adenine arabinonucleoside derivative that acts as an antineoplastic antimetabolite. It is used in the treatment of ACUTE LYMPHOID LEUKEMIA in pediatric patients who have relapsed.

#### **Tree locations:**

Adenine Nucleotides D03.633.100.759.646.138.309  
D13.695.667.138.309  
D13.695.827.068.309  
Arabinonucleosides D13.570.065.195

### Clopidogrel

A ticlopidine analog and platelet purinergic P2Y receptor antagonist that inhibits adenosine diphosphate-mediated PLATELET AGGREGATION. It is used to prevent THROMBOEMBOLISM in patients with ARTERIAL OCCLUSIVE DISEASES; MYOCARDIAL INFARCTION; STROKE; or ATRIAL FIBRILLATION.

#### **Tree locations:**

Ticlopidine D02.886.778.823.500.500  
D03.383.725.849.500.500  
D03.383.903.830.500.500  
D03.633.100.928.500.500

### Collaborative Cross Mice

Recombinant inbred strains of mice derived from an eight-way cross of eight genetically diverse, founder inbred strains, as a reference population for analyzing MULTIFACTORIAL INHERITANCE.

PI: Mice, Inbred Strains (2004-2018)

#### **Tree locations:**

Mice, Inbred Strains B01.050.150.900.649.313.992.635.505.500.400.013

## New MeSH Headings for 2019

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

### Collections as Topic

Works about items gathered and assembled in some order to facilitate access or use.

AN: do not confuse with the Publication Type COLLECTION

**Tree locations:**

Information Storage and Retrieval L01.470.375

### Cone Dystrophy

A general term which describes a group of rare eye disorders that affect the cone cells of the RETINA. Cone dystrophy can cause a variety of symptoms including decreased visual clarity or acuity when looking straight ahead (central vision), a reduced ability to see colors, and an increased sensitivity to light (PHOTOPOBIA).

**Tree locations:**

Eye Diseases, Hereditary C11.270.151

Retinal Diseases C11.768.216

### Conscientious Refusal to Treat

Refusal of health professionals to provide medical services on the basis of moral or religious beliefs.

PI: Refusal to Treat (1992-2018)

**Tree locations:**

Refusal to Treat N04.590.233.727.605.500

N05.300.100.675.500

### Correlation of Data

Determination of whether or not two variables are correlated. This means to study whether an increase or decrease in one variable corresponds to an increase or decrease in the other variable.

**Tree locations:**

Statistics as Topic H01.548.832.500

### Craniofacial Fibrous Dysplasia

Mostly benign fibro-osseous proliferation of the facial bone and skull. It can be either monostotic (localized to a single bone) or polyostotic (localized to more than one bone) type.

PI: Fibrous Dysplasia of Bone (1969-2018)

**Tree locations:**

Fibrous Dysplasia of Bone C05.116.099.708.375.286

### CRISPR-Associated Protein 9

An RNA-guided endodeoxyribonuclease that associates with CRISPR SEQUENCES in STREPTOCOCCUS PYOGENES and other bacteria where it participates in an adaptive immune function to cleave foreign DNA complimentary to small GUIDE RNA (sgRNAs). Structurally, Cas9 consists of an ALPHA-HELIX module and a nuclease module connected by a single helix. The nuclease module contains two enzymatic domains: RuvC, which cleaves non-target DNA strand, and an HNH nuclease domain, which cleaves the target strand. Specificity for the DNA target depends on the presence of a protospacer adjacent motif (PAM) sequence, a 2-6 nucleotide DNA sequence immediately following the sequence targeted by Cas9.

PI: Endonucleases (2015-2018)

PI: Bacterial Proteins (2015-2018)

**Tree locations:**

Bacterial Proteins D12.776.097.219

CRISPR-Associated Proteins D12.776.212.500

Endodeoxyribonucleases D08.811.277.352.355.325.150

## New MeSH Headings for 2019

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

### Crizotinib

A piperidine and aminopyridine derivative that acts as an inhibitor of RECEPTOR PROTEIN-TYROSINE KINASES, including ANAPLASTIC LYMPHOMA KINASE (ALK) and HEPATOCYTE GROWTH FACTOR RECEPTOR (HGFR; c-Met). It is used in the treatment of NON-SMALL CELL LUNG CANCER.

**Tree locations:**

Aminopyridines D03.383.725.050.263  
Piperidines D03.383.621.154

### Crystalloid Solutions

Isotonic solutions of mineral salts, such as RINGER'S LACTATE and SODIUM CHLORIDE (SALINE SOLUTION), used in FLUID THERAPY to rehydrate BLOOD VOLUME.

**Tree locations:**

Isotonic Solutions D26.776.498.500

### Cyberbullying

Bullying that takes place over digital devices like cell phones and computers. It includes sending, posting, or sharing negative, harmful, false, or mean content about someone else. It can include sharing personal or private information about someone else causing embarrassment or humiliation. (from <https://www.stopbullying.gov>)

PI: Bullying (2012-2018)

**Tree locations:**

Bullying F01.145.126.125.550.500  
F01.145.813.213.500.500  
I01.880.735.070.500

### Cytoglobin

A globin protein that may protect cells from OXIDATIVE STRESS and function in intracellular oxygen storage and transfer.

**Tree locations:**

Globins D12.776.422.316.381

### Daclizumab

An anti-TAC (INTERLEUKIN-2 RECEPTOR ALPHA SUBUNIT) humanized monoclonal antibody (immunoglobulin G1 disulfide with human-mouse monoclonal clone 1H4 light chain, dimer) that is used in the treatment of ACUTE RELAPSING MULTIPLE SCLEROSIS.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.766  
D12.776.124.790.651.114.224.060.766  
D12.776.377.715.548.114.224.200.766

### Daphniphyllaceae

Vascular plants of the order SAXIFRAGALES, class MAGNOLIOPSIDA, of which the sole genus is DAPHNIPHYLLUM.

**Tree locations:**

Saxifragales B01.650.940.800.575.912.250.890.500



## New MeSH Headings for 2019

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

### **Daphniphyllum**

Broad-leaved evergreen shrub or small tree comprising several species. It is the only genus of the family DAPHNIPHYLLACEAE, class MAGNOLIOPSIDA.

PI: Saxifragaceae (2003-2018)

#### **Tree locations:**

Daphniphyllaceae B01.650.940.800.575.912.250.890.500.500

### **Data Aggregation**

Process of searching, gathering, and presenting data in a summarized format.

#### **Tree locations:**

Data Collection L01.399.250.213

### **Data Analysis**

Process of systematically applying statistical and/or logical techniques to describe and illustrate, condense and recap, and evaluate data (<https://ori.hhs.gov/education>).

#### **Tree locations:**

Mathematics H01.548.338

### **Data Science**

An interdisciplinary field involving processes, theories, concepts, tools, and technologies, that enable the review, analysis, and extraction of valuable knowledge and information from structured and unstructured (raw) data.

#### **Tree locations:**

Information Science L01.305

### **Data Systems**

Organized collection of symbols and symbol-manipulating processes used to operate on such symbols.

#### **Tree locations:**

Database Management Systems L01.224.068.500

### **Data Visualization**

Facilitating understanding of the significance of data by placing it in a visual context. Patterns, trends and correlations that might go undetected in text-based data may be exposed and recognized easier.

#### **Tree locations:**

Communication L01.143.288

## New MeSH Headings for 2019

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

### Decitabine

An azacitidine derivative and antineoplastic antimetabolite. It inhibits DNA methyltransferase to re-activate silent genes, limiting METASTASIS and NEOPLASM DRUG RESISTANCE. Decitabine is used in the treatment of MYELODISPLASTIC SYNDROMES, and ACUTE MYELOID LEUKEMIA.

**Tree locations:**

Azacitidine D02.145.150.500  
D03.383.742.680.245.217.500  
D13.570.685.245.217.500  
D13.570.800.286.300.500

### Deep Learning

Supervised or unsupervised machine learning methods that use multiple layers of data representations generated by nonlinear transformations, instead of individual task-specific ALGORITHMS, to build and train neural network models.

PI: Artificial Intelligence (2001-2018)

**Tree locations:**

Machine Learning G17.035.250.500.250  
L01.224.050.375.530.250  
Neural Networks (Computer) G17.485.500  
L01.224.050.375.605.500

### Deferasirox

A triazole and benzoate derivative that acts as a selective iron chelator. It is used in the management of chronic IRON OVERLOAD due to blood transfusion or non-transfusion dependent THALASSEMIA.

**Tree locations:**

Benzoates D02.241.223.100.250  
D02.455.426.559.389.127.266  
Triazoles D03.383.129.799.363

### Deferiprone

A pyridone derivative and iron chelator that is used in the treatment of IRON OVERLOAD in patients with THALASSEMIA.

**Tree locations:**

Pyridones D03.383.725.791.298

### Density Functional Theory

Density functional theory is an approach to describe the electronic ground state properties of matter. It is a method of obtaining a solution to the Schrodinger equation for a many-body system, and is used to investigate the structural, magnetic, and electronic properties of molecules and materials.

PI: Quantum Theory (2002-2018)

**Tree locations:**

Quantum Theory H01.671.579.800.500

### Desflurane

A fluorinated ether that is used as a volatile anesthetic for maintenance of general anesthesia.

**Tree locations:**

Ethyl Ethers D02.355.417.166  
Hydrocarbons, Fluorinated D02.455.526.510.213  
Methyl Ethers D02.355.601.325

## New MeSH Headings for 2019

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

### **Desulfovibrionales**

An order of bacteria within the class DELTAPROTEOBACTERIA, of the phylum PROTEOBACTERIA, which comprises four families.

**Tree locations:**

Deltaproteobacteria B03.660.125.144

### **Diagnostic Screening Programs**

Services for the presumptive identification of unrecognized disease in an apparently healthy, asymptomatic population by means of tests, examinations or other procedures that can be applied rapidly and easily to the target population. (from World Health Organization <http://www.who.int/cancer/prevention/diagnosis-screening/screening/en/> Oct. 24,2017)

PI: Mass Screening (1963-2018)

**Tree locations:**

Diagnostic Services N02.421.726.233.138

### **Dialectical Behavior Therapy**

A flexible, stage-based therapy that combines principles of behavior therapy, cognitive behavior therapy, and MINDFULNESS. It concurrently promotes acceptance and change, especially with difficult-to-treat patients.

PI: Behavior Therapy (1998-2018)

**Tree locations:**

Behavior Therapy F04.754.137.628

### **Diary as Topic**

Works on or about records, usually private, of writers' experiences, observations, feelings, attitudes, etc. They may also be works marked in calendar order in which to note appointments and the like.

**Tree locations:**

Biography as Topic K01.517.211.361

### **Dicentra**

A genus of herbaceous plants with asymmetrically-shaped flowers and finely divided leaves, native to east Asia and North America.

**Tree locations:**

Papaveraceae B01.650.940.800.575.912.250.836.500.343

### **Dictionary, Chemical (Pub Type)**

A reference book containing a list of words related to chemistry-usually in alphabetic order-giving information about form, pronunciation, etymology, grammar, and meaning.

AN: This heading is used as a Publication Type. Works on Chemical Dictionaries as a subject are indexed under the main heading DICTIONARIES, CHEMICAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Dictionary V02.310.113

## New MeSH Headings for 2019

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

### **Dictionary, Classical (*Pub Type*)**

A reference work containing a list of words related to the Greco-Roman World giving information about form, pronunciation, etymology, grammar, and meaning.

AN: This heading is used as a Publication Type. Works on Classical Dictionaries as a subject are indexed under the main heading DICTIONARIES, CLASSICAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Dictionary V02.310.225

### **Dictionary, Dental (*Pub Type*)**

A reference book containing a list of words related to dentistry-usually in alphabetic order-giving information about form, pronunciation, etymology, grammar, and meaning.

AN: This heading is used as a Publication Type. Works on Dental Dictionaries as a subject are indexed under the main heading DICTIONARIES, DENTAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Dictionary V02.310.363

### **Dictionary, Medical (*Pub Type*)**

A reference book containing a list of words related to medicine-usually in alphabetic order-giving information about form, pronunciation, etymology, grammar, and meaning.

AN: This heading is used as a Publication Type. Works on Medical Dictionaries as a subject are indexed under the main heading DICTIONARIES, MEDICAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Dictionary V02.310.400

### **Dictionary, Pharmaceutic (*Pub Type*)**

A reference book containing a list of words related to pharmacy-usually in alphabetic order-giving information about form, pronunciation, etymology, grammar, and meaning.

AN: This heading is used as a Publication Type. Works on Pharmaceutic Dictionaries as a subject are indexed under the main heading DICTIONARIES, PHARMACEUTIC AS TOPIC. INDEXER: Do not use

**Tree locations:**

Dictionary V02.310.450

### **Disability Studies**

Interdisciplinary programs of academic study that de-stigmatize disease, illness, and impairment.

PI: Interdisciplinary Studies (2011-2018)

**Tree locations:**

Interdisciplinary Studies I02.158.405.500

### **Disenfranchised Grief**

Expression of grief that society limits or may not allow a person to express. Examples include the grief of parents for stillborn babies, of teachers for the death of students, of nurses for the death of patients, or for the loss of an animal companion. (from APA Dictionary of Psychology, 2nd ed.)

PI: Bereavement (1998-2018)

**Tree locations:**

Grief F01.470.142.110.500

## New MeSH Headings for 2019

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

### Disgust

A feeling of revulsion or strong disapproval aroused by something unpleasant or offensive.

PI: Fear (1976-2018)

#### Tree locations:

Emotions F01.470.307

### Dispensatory (*Pub Type*)

Systematic description of the drugs and preparations used generally or in a specific setting.

AN: This heading is used as a Publication Type. Dispensatories as a subject are indexed under the main heading DISPENSATORIES AS TOPIC. INDEXER: do not use

#### Tree locations:

Publication Formats V02.314

### Diterpene Alkaloids

A class of nitrogenous organic compounds of plant origin composed of two TERPENES with molecular formula C<sub>20</sub>H<sub>32</sub>.

PI: Alkaloids (1963-2018)

PI: Diterpenes (1963-2018)

#### Tree locations:

Alkaloids D03.132.301

Diterpenes D02.455.849.291.184

### Docetaxel

A semisynthetic analog of PACLITAXEL used in the treatment of locally advanced or metastatic BREAST NEOPLASMS and NON-SMALL CELL LUNG CANCER.

#### Tree locations:

Taxoids D02.455.426.392.368.242.888.389

D02.455.849.291.850.389

### Donepezil

An indan and piperidine derivative that acts as a selective and reversible inhibitor of ACETYLCHOLINESTERASE. Donepezil is highly selective for the central nervous system and is used in the management of mild to moderate DEMENTIA in ALZHEIMER DISEASE.

#### Tree locations:

Indans D02.455.426.559.847.486.487.280

D04.615.486.487.280

Piperidines D03.383.621.238

### Doripenem

A carbapenem derivative antibacterial agent that is more stable to renal dehydropeptidase I than IMIPENEM, but does not need to be given with an enzyme inhibitor such as CILASTATIN. It is used in the treatment of infections such as HOSPITAL-ACQUIRED PNEUMONIA, and complicated intra-abdominal or urinary-tract infections, including PYELONEPHRITIS.

#### Tree locations:

Carbapenems D02.065.589.099.124.150

D03.633.100.300.124.150

## New MeSH Headings for 2019

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

### Dronedarone

A non-iodinated derivative of amiodarone that is used for the treatment of ARRHYTHMIA.

**Tree locations:**

Amiodarone D03.633.100.127.075.500

### Drug Development

The entire process of bringing a new drug to the market. It includes both preclinical and clinical testing, and regulatory approval.

AN: do not confuse with DRUG DISCOVERY which is the process of finding chemicals for potential therapeutic use

**Tree locations:**

Chemistry, Pharmaceutical H01.158.703.007.338

H01.181.466.338

Investigative Techniques E05.290

### Economic Status

Personal or family variables such as household income, assets such as inherited wealth, savings, employment benefits, or ownership of homes or other property.

PI: Socioeconomic Factors (1970-2018)

PI: Economics (1966-2018)

**Tree locations:**

Socioeconomic Factors I01.880.853.996.268

N01.824.098

### Edaravone

An antipyrene derivative that functions as a free radical scavenger and neuroprotective agent. It is used in the treatment of AMYOTROPHIC LATERAL SCLEROSIS and STROKE.

**Tree locations:**

Antipyrene D03.383.129.539.850.088.500

### Egocentrism

Self-centered preoccupation or concern regarding one's own needs, abilities, wishes, desires, or preferences.

AN: EGO is also available

PI: Self Concept (1972-2018)

**Tree locations:**

Personality F01.752.343

Self Concept F01.752.747.792.379

### Embarrassment

A feeling of self-consciousness, shame, or awkwardness.

PI: Guilt (1979-2018)

**Tree locations:**

Shame F01.470.483.666.500

## New MeSH Headings for 2019

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

### Endurance Training

Exercise programs of relatively long duration and moderate intensity, which enhance maximal oxygen uptake, increasing PHYSICAL STAMINA.

PI: Physical Endurance (1975-2018)

#### Tree locations:

Exercise Therapy E02.760.169.063.500.387.250

E02.779.483.250

E02.831.535.483.250

Physical Conditioning, Human G11.427.410.698.277.311.188

I03.350.311.188

### Enfuvirtide

A synthetic 36-amino acid peptide that corresponds to the heptad repeat sequence of HIV-1 gp41. It blocks HIV cell fusion and viral entry and is used with other anti-retrovirals for combination therapy of HIV INFECTIONS and AIDS.

#### Tree locations:

HIV Envelope Protein gp41 D12.776.543.512.500.330.500

D12.776.964.775.325.164.200.500

D12.776.964.775.562.500.200.500

D12.776.964.970.880.325.164.200.500

D12.776.964.970.880.910.330.500

D23.050.327.520.330.500

Peptide Fragments D12.644.541.250

### Enrofloxacin

A fluoroquinolone antibacterial and antimycoplasma agent that is used in veterinary practice.

#### Tree locations:

Fluoroquinolones D03.633.100.810.835.322.304

### Epidermal Cells

Cells from the outermost, non-vascular layer (EPIDERMIS) of the skin.

AN: for epidermal cells of plants use PLANT EPIDERMIS /cytol

PI: Epidermis (1963-2018)

#### Tree locations:

Cells A11.409

### Eplerenone

A spironolactone derivative and selective ALDOSTERONE RECEPTOR antagonist that is used in the management of HYPERTENSION and CONGESTIVE HEART FAILURE, post-MYOCARDIAL INFARCTION.

#### Tree locations:

Lactones D02.540.383

Pregnenes D04.210.500.745.745.329

### Eptifibatide

Cyclic peptide that acts as a platelet glycoprotein IIB-IIIa antagonist, reversibly inhibiting the binding of FIBRINOGEN; VON WILLEBRAND FACTOR; and other adhesive molecules to the GPIIB-IIA RECEPTORS of platelets. It is used in the management of UNSTABLE ANGINA and in patients undergoing coronary ANGIOPLASTY and stenting procedures.

#### Tree locations:

Peptides, Cyclic D12.644.641.366

## New MeSH Headings for 2019

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

### Equipment and Supplies Utilization

Extent of use of equipment or supplies. It includes overuse and underuse.

**Tree locations:**

Statistics as Topic E05.318.740.375  
N05.715.360.750.338

### Ertapenem

A carbapenem derivative antibacterial agent that is more stable to renal dehydropeptidase I than IMIPENEM, but does not need to be given with an enzyme inhibitor such as CILASTATIN. It is used in the treatment of Gram-positive and Gram-negative bacterial infections including intra-abdominal infections, acute gynecological infections, complicated urinary tract infections, skin infections, and respiratory tract infections. It is also used to prevent infection in colorectal surgery.

**Tree locations:**

Carbapenems D02.065.589.099.124.225  
D03.633.100.300.124.225

### Esophageal Squamous Cell Carcinoma

A carcinoma that originates usually from cells on the surface of the middle and lower third of the ESOPHAGUS. Tumor cells exhibit typical squamous morphology and form large POLYPLOID lesions. Mutations in RNF6, LZTS1, TGFBR2, DEC1, and WWOX1 genes are associated with this cancer.

AN: coordinate IM with ESOPHAGEAL NEOPLASMS (IM)

**Tree locations:**

Carcinoma, Squamous Cell C04.557.470.200.400.330  
C04.557.470.700.400.565  
Esophageal Neoplasms C04.588.274.476.205.500  
C04.588.443.353.500  
C06.301.371.205.500  
C06.405.117.430.500  
C06.405.249.205.500

### Etoricoxib

A sulfone and pyridine derivative that acts as a cyclooxygenase-2 inhibitor. It is used as a NSAID for the treatment of pain associated with RHEUMATOID ARTHRITIS and ANKYLOSING SPONDYLITIS. It is also used for the short-term treatment of moderate postoperative dental pain.

**Tree locations:**

Pyridines D03.383.725.354  
Sulfones D02.886.590.444

### Eucalyptol

A monoterpene and cyclohexanol derivative that is the major component of EUCALYPTUS OIL. It is used in mouthwash, insect repellent, and as a cough suppressant, and also is widely used as a flavoring agent and solvent. It has antimicrobial properties.

**Tree locations:**

Cyclohexanols D02.033.415.510.500.454  
D02.455.426.392.368.367.318.625  
D10.289.510.500.454  
Monoterpenes D02.455.849.575.250

### Eucalyptus Oil

An oily liquid that is extracted from the leaves of EUCALYPTUS trees.

**Tree locations:**

Plant Oils D10.627.700.033  
D20.215.784.750.033



## New MeSH Headings for 2019

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

### Euthanasia, Involuntary

The act or practice of killing or withholding life-sustaining treatment from a person with a medical condition, especially DISABLED PERSONS, without INFORMED CONSENT, despite the MENTAL COMPETENCY of the person to give consent. It may be viewed as a mercy killing or for the good of society, when widespread practice is ideologically or politically sanctioned, as under NATIONAL SOCIALISM.

AN: Nazi Euthanasia Program goes here; coordinate with NATIONAL SOCIALISM

**Tree locations:**

Crime I01.198.240.250

### Ex-Smokers

Persons who do not smoke but that have a history of SMOKING.

PI: Smoking (1964-2018)

**Tree locations:**

Persons M01.219

### Exenatide

A synthetic form of exendin-4, a 39-amino acid peptide isolated from the venom of the Gila monster lizard (*Heloderma suspectum*). Exenatide increases CYCLIC AMP levels in pancreatic acinar cells and acts as a GLUCAGON-LIKE PEPTIDE-1 RECEPTOR (GLP-1) agonist and incretin mimetic, enhancing insulin secretion in response to increased glucose levels; it also suppresses inappropriate glucagon secretion and slows gastric emptying. It is used as an anti-diabetic and anti-obesity agent.

**Tree locations:**

Peptides D12.644.187

Venoms D20.888.300

D23.946.833.300

### Extracellular Polymeric Substance Matrix

Extracellular matrix formed by secreted polymeric organic compounds by microorganisms. This secreted compound is mostly polysaccharides but may include proteins, lipids, and nucleic acids. The matrix facilitates attachment of microbes to form various BIOFILM communities.

PI: Polysaccharides, Bacterial (1985-2018)

PI: Extracellular Matrix (2001-2018)

**Tree locations:**

Biofilms A20.593.500

G06.120.500

### Facilities and Services Utilization

Extent of use of facilities or services. It includes overuse and underuse.

**Tree locations:**

Organization and Administration N04.452.289

Statistics as Topic E05.318.740.388

H01.548.832.625

N05.715.360.750.344

N06.850.520.830.375

### Famciclovir

An aminopurine derivative and prodrug of penciclovir which is a competitive inhibitor of herpes simplex 2 DNA polymerase. It is used to treat HERPES SIMPLEX VIRUS INFECTIONS.

**Tree locations:**

Adenine D03.633.100.759.138.703

## New MeSH Headings for 2019

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

### Family Separation

Geographic separation of members of a family.

**Tree locations:**

Family F01.829.263.387  
I01.880.853.150.446

### Felbamate

A PEGylated phenylcarbamate derivative that acts as an antagonist of NMDA RECEPTORS. It is used as an anticonvulsant, primarily for the treatment of SEIZURES in severe refractory EPILEPSY.

**Tree locations:**

Phenylcarbamates D02.241.081.251.583.366  
Propylene Glycols D02.033.455.706.388

### Ferric Oxide, Saccharated

A glucaric acid-iron conjugate that is used in the treatment of IRON-DEFICIENCY ANEMIA, including in patients with chronic kidney disease, when oral iron therapy is ineffective or impractical.

**Tree locations:**

Ferric Compounds D01.490.100.150  
D02.691.550.100.250  
Glucaric Acid D02.241.081.844.300.500  
D02.241.511.902.300.500  
D09.811.295.500

### Fidaxomicin

A narrow-spectrum macrolide antibacterial agent that is used in the treatment of diarrhea associated with CLOSTRIDIUM DIFFICILE INFECTION.

**Tree locations:**

Macrolides D02.540.505.225  
D02.540.576.500.994  
D04.345.674.500.500

### Fish Proteins, Dietary

Dietary protein from FISH.

PI: Fish Proteins (2002-2018)

**Tree locations:**

Fish Proteins D12.776.325.250  
Meat Proteins D12.776.256.472.250  
G07.203.300.428.472.250  
G07.203.300.600.625.250  
J02.500.428.472.250  
J02.500.600.625.250  
Seafood G07.203.300.600.875.550  
J02.500.600.875.550

### Flacourtia

A genus of flowering plants in the family SALICACEAE, order MALPHIGIALES. An example is the willow, also known as salix or saules (French).

**Tree locations:**

Salicaceae B01.650.940.800.575.912.250.859.797.875.450

# New MeSH Headings for 2019

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

## Flexural Strength

The maximum MECHANICAL STRESS that a heterogeneous material, subject to a bending load or flexure, can withstand before fracturing.

PI: Pliability (1995-2018)

PI: Elasticity (1969-2018)

PI: Stress, Mechanical (1982-2018)

### Tree locations:

Mechanical Phenomena G01.374.604

## Fluvastatin

An indole-heptanoic acid derivative that inhibits HMG COA REDUCTASE and is used to treat HYPERCHOLESTEROLEMIA. In contrast to other statins, it does not appear to interact with other drugs that inhibit CYP3A4.

### Tree locations:

Heptanoic Acids D10.251.450.300

Indoles D03.633.100.473.305

## Focused Assessment with Sonography of Trauma

Rapid bedside ultrasound examination performed by medical personnel (surgeons, emergency physicians, paramedics and others), as a screening test for blood around the heart (PERICARDIAL EFFUSION) or abdominal organs (HEMOPERITONEUM) after trauma.

PI: Ultrasonography (1999-2018)

### Tree locations:

Ultrasonography E01.370.350.850.423

## Fomepizole

A pyrazole and competitive inhibitor of ALCOHOL DEHYDROGENASE that is used for the treatment of poisoning by ETHYLENE GLYCOL or METHANOL.

### Tree locations:

Pyrazoles D03.383.129.539.344

## Fondaparinux

Synthetic pentasaccharide that mediates the interaction of HEPARIN with ANTITHROMBINS and inhibits FACTOR Xa; it is used for prevention of VENOUS THROMBOEMBOLISM after surgery.

### Tree locations:

Oligosaccharides D09.698.629.429

## Forensic Psychology

A specialty in professional psychology characterized by activities primarily intended to provide professional psychological expertise within the judicial and legal systems.

PI: Forensic Psychiatry (1980-2018)

### Tree locations:

Forensic Sciences I01.198.780.960

Psychology F04.096.628.049

## New MeSH Headings for 2019

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

### Forms as Topic

Works about documents used for acquiring particular information or for presenting particular information in a prescribed sequence and format, often with blank spaces or lines or other methods to prompt for insertion of the requested information.

AN: do not confuse with the Publication Type FORM

**Tree locations:**

Data Collection L01.399.250.372

### Formularies, Dental (*Pub Type*)

Works on or about reference lists of descriptions and uses of drugs related to oral medicine and dentistry.

AN: This heading is used as a Publication Type. Works on Dental Formularies as a subject are indexed under the main heading FORMULARIES, DENTAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Formulary V02.480.375

### Formularies, Hospital (*Pub Type*)

Formulary concerned with PHARMACEUTICAL PREPARATIONS prescribed in hospitals.

AN: This heading is used as a Publication Type. Works on Hospital Formularies as a subject are indexed under the main heading FORMULARIES, HOSPITAL AS TOPIC. INDEXER: Do not use

**Tree locations:**

Formulary V02.480.750

### Formulary, Homeopathic (*Pub Type*)

Work about Formulary concerned with HOMEOPATHIC REMEDIES.

AN: This heading is used as a Publication Type. Works on Homeopathic Formularies as a subject are indexed under the main heading FORMULARIES, HOMEOPATHIC AS TOPIC. INDEXER: Do not use

**Tree locations:**

Formulary V02.480.775

### Fruit Proteins

Proteins found in FRUIT.

PI: Plant Proteins (1965-2018)

**Tree locations:**

Dietary Proteins D12.776.256.356

Plant Proteins D12.776.765.354

Plant Proteins, Dietary G07.203.300.428.920.113

J02.500.428.920.125

### Fulvestrant

An estradiol derivative and estrogen receptor antagonist that is used for the treatment of estrogen receptor-positive, locally advanced or metastatic breast cancer.

**Tree locations:**

Estradiol D04.210.500.365.415.248.660

D06.472.334.851.437.500.500

## New MeSH Headings for 2019

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

### Gabapentin

A cyclohexane-gamma-aminobutyric acid derivative that is used for the treatment of PARTIAL SEIZURES; NEURALGIA; and RESTLESS LEGS SYNDROME.

**Tree locations:**

Amines	D02.092.521
Cyclohexanecarboxylic Acids	D02.241.223.268.469
	D02.455.426.392.368.367.218.500
gamma-Aminobutyric Acid	D02.241.081.114.500.350.300
	D12.125.190.350.225

### Gait Analysis

Determination of the level of functional limitation that may be due to pathology, and evaluating rehabilitative intervention of the way in which the body moves from one point to another. Most often, this is done by walking.

PI: Gait (1981-2018)

**Tree locations:**

Gait	E01.370.600.250.250
Physical Functional Performance	N01.400.545.750.500

### Gastric Artery

Any of several branches of the SPLENIC ARTERY distributed to the greater curvature of the stomach.

PI: Arteries (1970-2018)

**Tree locations:**

Arteries	A07.015.114.365
----------	-----------------

### GATA2 Deficiency

A rare disorder of the immune system with wide-ranging effects which include GATA2 Transcription Factor dysfunction, immunodeficiency, myelodysplastic syndrome (ineffective blood cell production), lung disease, and problems of the vascular and lymphatic system.

PI: GATA2 Transcription Factor (2011-2018)

**Tree locations:**

Genetic Diseases, Inborn	C16.320.314
--------------------------	-------------

### Gatifloxacin

A fluoroquinolone antibacterial agent and DNA TOPOISOMERASE II inhibitor that is used as an ophthalmic solution for the treatment of BACTERIAL CONJUNCTIVITIS.

**Tree locations:**

Fluoroquinolones	D03.633.100.810.835.322.316
------------------	-----------------------------

### Gefitinib

A selective tyrosine kinase inhibitor for the EPIDERMAL GROWTH FACTOR RECEPTOR (EGFR) that is used for the treatment of locally advanced or metastatic NON-SMALL CELL LUNG CANCER.

**Tree locations:**

Quinazolines	D03.633.100.786.469
--------------	---------------------

## New MeSH Headings for 2019

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

### Gemifloxacin

A naphthyridine and fluoroquinolone derivative antibacterial agent and DNA TOPOISOMERASE II inhibitor that is used for the treatment of community-acquired pneumonia and acute bacterial infections associated with chronic bronchitis.

**Tree locations:**

Fluoroquinolones D03.633.100.810.835.322.322  
Naphthyridines D03.633.100.612.250

### Genetic Profile

A set of characteristics unique to the DNA of an individual organism or population obtained by analyzing small samples of biological material such as body tissues or fluids, used especially in the context of predicting susceptibility to a particular disease. For example, some populations have identifiable genetic profiles which put them at higher risk for cancer. Distinguish from GENETIC BACKGROUND and GENETIC VARIATION.

**Tree locations:**

Genetic Background G05.346.500

### Gestational Weight Gain

Increase in body weight of the mother during the course of her PREGNANCY.

PI: Weight Gain (1990-2018)

**Tree locations:**

Reproductive Physiological Phenomena G08.686.330  
Weight Gain C23.888.144.243.926.500  
G07.345.249.314.120.200.926.500

### Glymphatic System

A vascular waste clearance system in the brain analogous to the lymphatic system that facilitates transporting of solutes and waste products from CEREBROSPINAL FLUID (CSF) and brain INTERSTITIAL FLUID (ISF). CSF from the SUBARACHNOID SPACE enters the brain periarterial spaces, into the interstitium via channels (e.g., AQUAPORIN 4 PROTEIN) on astrocytic endfeet and exchanges with brain ISF before perivenous drainage of solutes and waste.

PI: Lymphatic System (2013-2018)

**Tree locations:**

Brain A08.186.211.150  
Cardiovascular System A07.521  
Lymphatic System A15.382.520.075

### Golgi Matrix Proteins

Proteins on the cytoplasmic side of the GOLGI APPARATUS cisternae that tether the cisternae to each other or to the transport vesicles of the TRANS-GOLGI NETWORK to maintain the Golgi structure and function.

PI: Golgi Apparatus (2001-2018)

**Tree locations:**

Proteins D12.776.407

### GRADE Approach

A common, sensible, structured and transparent approach to grading quality (or certainty) of evidence and strength of recommendations developed by the Grading of Recommendations Assessment, Development and Evaluation (short GRADE) working group.

**Tree locations:**

Patient Outcome Assessment N05.715.360.575.575.399.375

## New MeSH Headings for 2019

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

### Grain Proteins

Dietary protein from EDIBLE GRAINS

PI: Plant Proteins (1977-2018)

#### Tree locations:

Dietary Proteins D12.776.256.395  
Plant Proteins D12.776.765.433  
Plant Proteins, Dietary G07.203.300.428.920.225  
J02.500.428.920.250

### Granulins

Small, cysteine-rich peptides generated by the proteolytic cleavage of progranulin. Granulin peptides are each composed of a granulin-motif, while paraganulin is composed of a half granulin motif. The mammalian granulins are named granulin 1-7 for their sequence order in the progranulin propeptide, and are alternately named granulin G, F, B, A, C, D, and E; or epithelin 7, 6, 2, 1, 3, 4, and 5, i.e. granulin 1 aka granulin G aka epithelin 7, etc.

AN: do not confuse with the viral protein GRANULIN MATRIX PROTEINS see OCCLUSION BODY MATRIX PROTEINS

PI: Intercellular Signaling Peptides and Proteins (1992-2018)

#### Tree locations:

Progranulins D06.472.699.682.500  
D12.644.276.917.500  
D12.776.467.917.500  
D23.529.917.500

### Gray Literature

Works that include publications such as reports, theses, conference papers, translations and limited circulation government documents which are not normally available through commercial publication sources. (LCSH)

#### Tree locations:

Publications L01.178.682.550

### Gun Violence

Violence using any type of firearm.

#### Tree locations:

Violence I01.198.240.856.519  
I01.880.735.900.632

### Harmala Alkaloids

Structurally-related ALKALOIDS derived from the seeds of PEGANUM HARMALA and other plant sources. They are associated with various pharmacologic and therapeutic effects.

#### Tree locations:

Indole Alkaloids D03.633.100.473.402.222

## New MeSH Headings for 2019

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

### Healthcare-Associated Pneumonia

Infection of the lung often accompanied by inflammation that is acquired through an interaction within a healthcare institution often through a therapeutic experience (e.g., use of catheters or ventilators).

PI: Cross Infection (1974-2018)

PI: Pneumonia (1974-2018)

#### Tree locations:

Cross Infection C01.539.248.250  
C23.550.291.875.500.500  
Pneumonia C08.381.677.300  
C08.730.610.300

### Histone Methyltransferases

Enzymes that catalyze the transfer of methyl groups to LYSINE or ARGININE residues of HISTONES, especially histone H3 and histone H4 proteins. They play a critical role in EPIGENETIC PROCESSES.

#### Tree locations:

Protein Methyltransferases D08.811.913.555.500.800.200

### History of Pharmacy

Study of the origins and development of the field of PHARMACY.

PI: Pharmacy (1963-2018)

#### Tree locations:

History K01.400.456

### Homoharringtonine

Semisynthetic derivative of harringtonine that acts as a protein synthesis inhibitor and induces APOPTOSIS in tumor cells. It is used in the treatment of MYELOID LEUKEMIA, CHRONIC.

#### Tree locations:

Harringtonines D03.132.420.500  
D03.633.100.079.533.500  
D03.633.400.624.500

### Hospitals, Rehabilitation

Free standing rehabilitation hospitals and rehabilitation units in acute care hospitals. They provide an intensive inpatient rehabilitation program.

#### Tree locations:

Hospitals, Special N02.278.421.556.193  
Rehabilitation N02.421.784.411

### Host Microbial Interactions

Interactions between a host and microbe or microbiota.

PI: Host-Pathogen Interactions (2007-2018)

#### Tree locations:

Biological Phenomena G16.527  
Microbiological Phenomena G06.373



## New MeSH Headings for 2019

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

### Ibandronic Acid

Aminobisphosphonate that is a potent inhibitor of BONE RESORPTION. It is used in the treatment of HYPERCALCEMIA associated with malignancy, for the prevention of fracture and bone complications in patients with breast cancer and bone metastases, and for the treatment and prevention of POSTMENOPAUSAL OSTEOPOROSIS.

**Tree locations:**

Diphosphonates D02.705.429.500.844

### Icodextrin

A glucan that is structurally related to maltodextrin, with more than 85% of its molecules having molecular weights between 1640 and 45 000 Daltons (Da), and a weight-average molecular weight of about 20 000 Da; it is used in dialysis fluids as an alternative to glucose-based solutions, and to reduce adhesions after gynecological or abdominal surgery. It has also been used as a vehicle for drugs given via the peritoneal cavity.

**Tree locations:**

Glucans D05.750.078.562.622  
D09.698.365.399

### Imiquimod

A topically-applied aminoquinoline immune modulator that induces interferon production. It is used in the treatment of external genital and perianal warts, superficial CARCINOMA, BASAL CELL; and ACTINIC KERATOSIS.

**Tree locations:**

Aminoquinolines D03.633.100.810.050.545

### Immunoglobulin G4-Related Disease

A spectrum of systemic autoimmune diseases in which IMMUNOGLOBULIN G4 plays a pathophysiologic role. It can affect multiple organs in highly variable presentations, characterized by inflammatory lesions composed of IgG4-positive PLASMA CELLS, further infiltrated by T helper cells (T-LYMPHOCYTES, HELPER-INDUCER) when linked to progressive FIBROSIS and eventual organ damage.

PI: Immunoglobulin G (2009-2018)
----------------------------------

PI: Autoimmune Diseases (2010-2018)
-------------------------------------

**Tree locations:**

Autoimmune Diseases C20.111.572

### Implementation Science

The study of methods to promote the adoption and integration of evidence-based practices, interventions and policies into routine health care and public health settings.

**Tree locations:**

Diffusion of Innovation L01.143.320.400

### Insulin Secretion

Production and release of insulin from PANCREATIC BETA CELLS that primarily occurs in response to elevated BLOOD GLUCOSE levels.

PI: Insulin/secretion (1966-2018)
-----------------------------------

**Tree locations:**

Metabolism G03.442  
Physiological Phenomena G07.475

## New MeSH Headings for 2019

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

### Insurance, Vision

Insurance providing coverage for vision care.

**Tree locations:**

Insurance, Health N03.219.521.576.343.750

### Interferon alpha-2

Alpha interferons encoded by the human IFNA2 gene. Recombinant forms are used in the treatment of CHRONIC HEPATITIS B; CHRONIC HEPATITIS C; KAPOSII SARCOMA; MELANOMA; and HAIRY CELL LEUKEMIA.

**Tree locations:**

Interferon-alpha D12.644.276.374.440.890.250.500  
D12.776.467.374.440.890.250.500  
D23.529.374.440.890.250.500

### International Health Regulations

Regulations to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks. ([www.who.int/features/qa/39/en](http://www.who.int/features/qa/39/en))

**Tree locations:**

Health Policy I01.655.500.608.400.468  
Legislation, Medical N03.706.615.473.250

### Internet Access

Ability to connect to the INTERNET and access services available there.

PI: Internet (1999-2018)

**Tree locations:**

Communication L01.143.539  
Internet L01.224.230.110.500.625

### Irbesartan

A spiro compound, biphenyl and tetrazole derivative that acts as an angiotensin II type 1 receptor antagonist. It is used in the management of HYPERTENSION, and in the treatment of kidney disease.

**Tree locations:**

Biphenyl Compounds D02.455.426.559.389.185.413  
Spiro Compounds D02.455.426.779.431  
D04.711.431  
Tetrazoles D03.383.129.617.351

### Irinotecan

A semisynthetic camptothecin derivative that inhibits DNA TOPOISOMERASE I to prevent nucleic acid synthesis during S PHASE. It is used as an antineoplastic agent for the treatment of COLORECTAL NEOPLASMS and PANCREATIC NEOPLASMS.

**Tree locations:**

Camptothecin D03.132.151.425

## New MeSH Headings for 2019

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

### Ivabradine

A benzazepine derivative and selective HYPERPOLARIZATION-ACTIVATED CYCLIC NUCLEOTIDE-GATED CHANNELS inhibitor that lowers the heart rate. It is used in the treatment of CHRONIC STABLE ANGINA in patients unable to take BETA-ADRENERGIC BLOCKERS, and in the treatment of HEART FAILURE.

**Tree locations:**

Benzazepines D03.633.100.079.801

### Lacosamide

An acetamide derivative that acts as a blocker of VOLTAGE-GATED SODIUM CHANNELS. It is used as an anticonvulsant, for adjunctive or monotherapy, in the treatment of PARTIAL SEIZURES.

**Tree locations:**

Acetamides D02.065.064.416  
D02.241.081.018.110.432

### Lamotrigine

A phenyltriazine compound, sodium and calcium channel blocker that is used for the treatment of SEIZURES and BIPOLAR DISORDER.

**Tree locations:**

Triazines D03.383.931.480

### Lapatinib

A quinazoline derivative that inhibits EPIDERMAL GROWTH FACTOR RECEPTOR and HER2 (RECEPTOR, ERBB-2) tyrosine kinases. It is used for the treatment of advanced or metastatic breast cancer, where tumors overexpress HER2.

**Tree locations:**

Quinazolines D03.633.100.786.516

### Latanoprost

A prostaglandin F analog used to treat OCULAR HYPERTENSION in patients with GLAUCOMA.

**Tree locations:**

Prostaglandins F, Synthetic D10.251.355.255.550.775.500.587  
D23.469.050.175.725.775.500.587  
D23.469.700.670.587

### Latent Class Analysis

A statistical algorithm used to analyze clusters of observed variables by constructing categorical unobserved or latent segment based on weighted analysis and the average probabilities. Such latent classes are used to infer variables whose relationships are not directly observed. In biomedical research, it is often used to categorize data that allows the determination of symptom clusters.

PI: Statistics as Topic (2017-2018)

**Tree locations:**

Algorithms G17.035.625  
L01.224.050.687  
Cluster Analysis E05.318.740.250.338  
N05.715.360.750.200.375  
N06.850.520.830.250.338

## New MeSH Headings for 2019

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

### Leflunomide

An isoxazole derivative that inhibits dihydroorotate dehydrogenase, the fourth enzyme in the pyrimidine biosynthetic pathway. It is used as an immunosuppressive agent in the treatment of RHEUMATOID ARTHRITIS and PSORIATIC ARTHRITIS.

**Tree locations:**

Isoxazoles D03.383.129.385.475

### Lenalidomide

A phthalimide and piperidone derivative that has immunomodulatory and antiangiogenic properties. It is used for the treatment of transfusion-dependent anemia in MYELODYSPLASTIC SYNDROMES, and for the treatment of MULTIPLE MYELOMA, and relapsed or refractory MANTLE CELL LYMPHOMA.

**Tree locations:**

Phthalimides D02.241.223.805.810.400

D03.633.100.513.750.563

Piperidones D03.383.621.808.519

### Lenograstim

A recombinant granulocyte colony-stimulating factor that is used to treat or prevent NEUTROPENIA in patients receiving myelosuppressive cancer chemotherapy, for the preparation and collection of blood progenitor cells in PERIPHERAL BLOOD STEM CELL TRANSPLANTATION; and in the treatment of severe congenital neutropenia. Component 1 and Component 2 differ by absence or presence of Neu5Ac in 2-6 linkage to GalNAc side chain.

**Tree locations:**

Granulocyte Colony-Stimulating Factor D12.644.276.374.410.240.350.750

D12.776.395.240.200.750

D12.776.467.374.410.240.350.750

D23.529.374.410.240.350.750

### Letrozole

A triazole and benzonitrile derivative that is a selective non-steroidal aromatase inhibitor, similar to ANASTROZOLE. It is used in the treatment of metastatic or locally advanced breast cancer in postmenopausal women.

**Tree locations:**

Nitriles D02.626.300

Triazoles D03.383.129.799.638

### Leucanthemum

A genus of flowering plants in the family ASTERACEAE, mainly distributed in southern and central Europe, and on other continents as introduced species. Leucanthemum species include annuals and perennials grown for their daisy flowers, which are usually gleaming white with yellow centers.

**Tree locations:**

Asteraceae B01.650.940.800.575.912.250.100.503

### Levetiracetam

A pyrrolidinone and acetamide derivative that is used primarily for the treatment of SEIZURES and some movement disorders, and as a nootropic agent.

**Tree locations:**

Acetamides D02.065.064.432

D02.241.081.018.110.463

Pyrrolidinones D03.383.773.812.362

## New MeSH Headings for 2019

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

### Levobupivacaine

S-enantiomer of bupivacaine that is used as a local anesthetic and for regional nerve blocks, including EPIDURAL ANESTHESIA.

**Tree locations:**

Bupivacaine D02.065.199.239.500  
D02.092.146.113.239.500

### Levomilnacipran

The (1S,2R)-isomer of milnacipran that is used for the treatment of MAJOR DEPRESSIVE DISORDER.

**Tree locations:**

Milnacipran D02.455.426.392.368.533.725.500

### Lidocaine, Prilocaine Drug Combination

A topical local anesthetic preparation that is composed of a mixture of lidocaine and prilocaine. It is used to provide anesthesia during minor surgery and for the treatment of PREMATURE EJACULATION.

**Tree locations:**

Drug Combinations D26.310.454  
Lidocaine D02.065.199.092.500.500  
D02.092.146.113.092.500.500  
Prilocaine D02.065.199.750.500  
D02.092.146.113.750.500

### Limonene

A naturally occurring class of MONOTERPENES which occur as a clear colourless liquid at room temperature. Limonene is the major component in the oil of oranges which has many uses, including as flavor and fragrance. It is recognized as safe in food by the Food and Drug Administration (FDA).

**Tree locations:**

Cyclohexenes D02.455.426.392.368.367.379.437  
Monoterpenes D02.455.849.575.625

### Lipoabdominoplasty

Aesthetic surgical treatment of the abdominal region using LIPOSUCTION associated with ABDOMINOPLASTY.

**Tree locations:**

Abdominoplasty E02.218.042.500  
E04.680.025.500  
Lipectomy E02.570.500.062.937.500  
E04.062.937.500

### Lipoglycopeptides

Glycopeptides that have an additional lipophilic side chains. Several semisynthetic lipoglycopeptide antibiotics are derived from naturally occurring lipoglycopeptide and glycopeptide antibiotics.

PI: Glycopeptides (1990-2018)

**Tree locations:**

Glycopeptides D09.400.420.405  
D12.644.233.352  
Lipopeptides D12.644.365.625

## New MeSH Headings for 2019

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

### Lumefantrine

A fluorene derivative that is used in combination with ARTEMETHER for the treatment of MALARIA (see ARTEMETHER-LUMEFANTRINE COMBINATION).

**Tree locations:**

Fluorenes D02.455.426.559.847.389.650  
D04.615.389.650

### Lycopene

A carotenoid and red pigment produced by tomatoes, other red fruits and vegetables, and photosynthetic algae. It is a key intermediate in the biosynthesis of other carotenoids, and has antioxidant, anti-carcinogenic, radioprotective, and anti-inflammatory properties.

**Tree locations:**

Carotenoids D02.455.326.271.665.202.216  
D02.455.426.392.368.367.379.249.213  
D02.455.849.131.216  
D23.767.261.375

### Maesa

A genus of flowering plants in the family PRIMULACEAE, order ERICALES.

**Tree locations:**

Primulaceae B01.650.940.800.575.912.250.341.984.718

### Malpighiales

Order of flowering plants which includes many tropical species. Well-characterized members include SALICACEAE (willow family), VIOLACEAE (violet family), PASSIFLORACEAE (passion-flower family), EUPHORBIACEAE (spurge or croton family), RHIZOPHORACEAE (mangrove family), and ERYTHROXYLACEAE (coca family).

**Tree locations:**

Rosanae B01.650.940.800.575.912.250.859.797

### Malvales

An order of mostly woody plants in the superorder ROSANAE. Members of the MALVALES grow in various habitats around the world.

**Tree locations:**

Rosanae B01.650.940.800.575.912.250.859.821

### Manuscript, Medical (*Pub Type*)

Medical works prepared by hand including handwritten or typescript drafts of pre-publication papers or works not otherwise reproduced in multiple copies.

AN: This heading is used as a Publication Type. Medical Manuscripts as a subject are indexed under the main heading MANUSCRIPTS, MEDICAL AS TOPIC. INDEXER: Do not use. CATALOGER: Use for historical material only

**Tree locations:**

Manuscript V02.630.250

## New MeSH Headings for 2019

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

### Maraviroc

A cyclohexane and triazole derivative that acts as an antagonist of the CCR5 RECEPTOR. It prevents infection by HIV-1 virus strains which use CCR5 as a co-receptor for membrane fusion and cellular entry.

**Tree locations:**

Cyclohexanes D02.455.426.392.368.367.726  
Triazoles D03.383.129.799.682

### Meat Proteins

Dietary proteins from MEAT.

PI: Dietary Proteins (1965-2018)

**Tree locations:**

Dietary Proteins D12.776.256.472  
G07.203.300.428.472  
J02.500.428.472  
Meat G07.203.300.600.625  
J02.500.600.625

### Medical Countermeasures

Regulated products (biologics, drugs, devices) that may be used in the event of a potential public health emergency stemming from a terrorist attack with a biological, chemical, or radiological/nuclear material, or a naturally occurring emerging disease.

**Tree locations:**

Disasters N06.230.100.195  
Public Health Practice N06.850.780.588

### Meglumine Antimoniate

ANTIMONY salt of meglumine that is used in the treatment of LEISHMANIASIS.

**Tree locations:**

Meglumine D02.033.800.813.550.800  
D09.067.342.600.800  
D09.853.813.550.800

### Meloxicam

A benzothiazine and thiazole derivative that acts as a NSAID and cyclooxygenase-2 (COX-2) inhibitor. It is used in the treatment of RHEUMATOID ARTHRITIS; OSTEOARTHRITIS; and ANKYLOSING SPONDYLITIS.

**Tree locations:**

Thiazines D02.886.665.275  
D03.383.855.275  
Thiazoles D02.886.675.448  
D03.383.129.708.448

### Mentalization

The mental process by which an individual implicitly and explicitly interprets the actions of self and others as meaningful on the basis of intentional mental states such as personal desires, needs, feelings, beliefs, and reasons.

**Tree locations:**

Mental Processes F02.463.467

## New MeSH Headings for 2019

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

### Meropenem

A thienamycin derivative antibacterial agent that is more stable to renal dehydropeptidase I than IMIPENEM, but does not need to be given with an enzyme inhibitor such as CILASTATIN. It is used in the treatment of bacterial infections, including infections in immunocompromised patients.

**Tree locations:**

Thienamycins D02.065.589.099.124.300.750  
D03.633.100.300.124.300.750

### Methantheline

A quaternary ammonium compound that acts as an antimuscarinic agent. It has been used in the treatment of PEPTIC ULCER, in gastrointestinal disorders associated with smooth muscle spasm, and in the management of urinary incontinence, and may also be used for the treatment of HYPERHIDROSIS.

**Tree locations:**

Quaternary Ammonium Compounds D02.092.877.562  
D02.675.276.569

### Methylprednisolone Acetate

Methylprednisolone derivative that is used as an anti-inflammatory agent for the treatment of ALLERGY and ALLERGIC RHINITIS; ASTHMA; and BURSITIS; and for the treatment of ADRENAL INSUFFICIENCY.

**Tree locations:**

Methylprednisolone D04.210.500.745.432.769.795.539.250

### Micafungin

A cyclic lipo-hexapeptide echinocandin antifungal agent that is used for the treatment and prevention of CANDIDIASIS.

**Tree locations:**

Echinocandins D12.644.641.311.750  
Lipopeptides D10.477.625  
D12.644.365.750

### Midkine

A developmentally regulated, HEPARIN-binding secreted growth factor homologous to pleiotrophin (PTN). It regulates cell proliferation through its interaction with ANAPLASTIC LYMPHOMA KINASE (ALK) and is involved in the formation of NEOINTIMA following arterial injury.

**Tree locations:**

Intercellular Signaling Peptides and Proteins D12.644.276.854  
D12.776.467.848  
D23.529.831

### Milnacipran

A cyclopropanecarboxamide serotonin and norepinephrine reuptake inhibitor (SNRI) that is used in the treatment of FIBROMYALGIA.

**Tree locations:**

Cyclopropanes D02.455.426.392.368.533.725



## New MeSH Headings for 2019

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

### Mirtazapine

A piperazinoazepine tetracyclic compound that enhances the release of NOREPINEPHRINE and SEROTONIN through blockage of presynaptic ALPHA-2 ADRENERGIC RECEPTORS. It also blocks both 5-HT2 and 5-HT3 serotonin receptors and is a potent HISTAMINE H1 RECEPTOR antagonist. It is used for the treatment of depression, and may also be useful for the treatment of anxiety disorders.

**Tree locations:**

Dibenzazepines D03.633.300.240.588

### Mivacurium

An isoquinoline derivative that is used as a short-acting non-depolarizing agent.

**Tree locations:**

Isoquinolines D03.633.100.531.430

### Modafinil

A benzhydryl acetamide compound, central nervous system stimulant, and CYP3A4 inducing agent that is used in the treatment of NARCOLEPSY and SLEEP WAKE DISORDERS.

**Tree locations:**

Benzhydryl Compounds D02.455.426.559.389.115.550

### Moxifloxacin

A fluoroquinolone that acts as an inhibitor of DNA TOPOISOMERASE II and is used as a broad-spectrum antibacterial agent.

**Tree locations:**

Fluoroquinolones D03.633.100.810.835.322.327

### Myopericytoma

Rare myofibroma-like perivascular soft tissue tumor, usually benign, characterized by concentric perivascular proliferation.

PI: Myofibroma (2005-2018)
PI: Hemangiopericytoma (2002-2018)
PI: Neoplasms, Vascular Tissue (2003-2018)

**Tree locations:**

Hemangiopericytoma C04.557.645.380.500

Neoplasms, Connective Tissue C04.557.450.565.545

C17.300.680.770

### Myrsine

A genus of flowering plants in the family PRIMULACEAE, found worldwide but primarily in tropical and subtropical regions.

**Tree locations:**

Primulaceae B01.650.940.800.575.912.250.341.984.746

## New MeSH Headings for 2019

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

### Myrtales

Order of flowering plants distributed throughout the tropics and warmer regions of the world. The majority of these species belong to two families, Melastomataceae and Myrtaceae. Myrtales includes many trees (notably Eucalyptus), shrubs, such as the classic myrtle, several food, spices, and ornamental plants.

**Tree locations:**

Rosanae B01.650.940.800.575.912.250.859.833

### Nabumetone

A butanone non-steroidal anti-inflammatory drug and cyclooxygenase-2 (COX2) inhibitor that is used in the management of pain associated with OSTEOARTHRITIS and RHEUMATOID ARTHRITIS.

**Tree locations:**

Butanones D02.522.296.650

### Nandrolone Decanoate

Decanoic acid ester of nandrolone that is used as an anabolic agent to prevent or treat WASTING SYNDROME associated with severe chronic illness or HIV infection (HIV WASTING SYNDROME). It may also be used in the treatment of POSTMENOPAUSAL OSTEOPOROSIS.

**Tree locations:**

Nandrolone D04.210.500.365.415.638.500  
D06.472.334.851.968.976.500

### Nasopharyngeal Carcinoma

A carcinoma that originates in the EPITHELIUM of the NASOPHARYNX and includes four subtypes: keratinizing squamous cell, non-keratinizing, basaloid squamous cell, and PAPILLARY ADENOCARCINOMA. It is most prevalent in Southeast Asian populations and is associated with EPSTEIN-BARR VIRUS INFECTIONS. Somatic mutations associated with this cancer have been identified in NPCR, BAP1, UBAP1, ERBB2, ERBB3, MLL2, PIK3CA, KRAS, NRAS, and ARID1A genes.

AN: coordinate IM with NASOPHARYNGEAL NEOPLASMS (IM)

**Tree locations:**

Carcinoma C04.557.470.200.623  
Nasopharyngeal Neoplasms C04.588.443.665.710.650.500  
C07.550.350.650.500  
C07.550.745.650.500  
C09.647.710.650.500  
C09.775.350.650.500  
C09.775.549.650.500

### Nateglinide

A phenylalanine and cyclohexane derivative that acts as a hypoglycemic agent by stimulating the release of insulin from the pancreas. It is used in the treatment of TYPE 2 DIABETES.

**Tree locations:**

Cyclohexanes D02.455.426.392.368.367.745  
Phenylalanine D12.125.072.050.685.448

### Natural Disasters

Disasters linked to natural hazards including widespread fires, floods, storms, earthquakes and drought. These events may result in significant damage and loss of lives.

PI: Disasters (1993-2018)

**Tree locations:**

Disasters N06.230.100.230

## New MeSH Headings for 2019

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

### Negative Results

Subject matter related to research studies in which the data do not demonstrate any clear evidence of effect, especially if an effect was expected.

**Tree locations:**

Data Collection E05.318.308.544  
L01.399.250.780  
N05.715.360.300.520  
N06.850.520.308.544

### Neonatal Brachial Plexus Palsy

Perinatal nerve injury involving the BRACHIAL PLEXUS involving a weak or paralyzed upper extremity.

PI: Brachial Plexus Neuropathies (2000-2018)
--

PI: Paralysis, Obstetric (1973-2018)
--------------------------------------

PI: Brachial Plexus/injuries (1973-2018)
--

**Tree locations:**

Birth Injuries C16.614.131.294  
C26.141.294  
Brachial Plexus Neuropathies C10.668.829.100.750

### Neuroglobin

A vertebrate globin that is expressed predominantly in the brain where it is involved in oxygen transport. It protects neurons from APOPTOSIS during OXIDATIVE STRESS.

**Tree locations:**

Globins D12.776.422.316.970  
Nerve Tissue Proteins D12.776.631.635

### Neurolymphomatosis

Infiltration of the nervous system by malignant lymphoma cells.

**Tree locations:**

Nervous System Neoplasms C10.551.568

### Niemann-Pick C1 Protein

A transmembrane intracellular lipid transporter that helps trafficking lipids, particularly cholesterol, from late endosome/lysosome to the ER and plasma membrane. It may also play a role in other cellular cholesterol homeostasis and is an endosomal entry receptor for filoviruses including EBOLAVIRUS. Mutations in the NPC1 are associated with type C NIEMANN-PICK DISEASE.

PI: Carrier Proteins (1997-2018)
----------------------------------

PI: Membrane Glycoproteins (1997-2018)
--

**Tree locations:**

Membrane Transport Proteins D12.776.157.530.594  
D12.776.543.585.594  
Patched Receptors D12.776.543.750.058.250  
D12.776.624.776.633.250  
Receptors, Virus D12.776.543.750.830.235

## New MeSH Headings for 2019

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

### **Nivolumab**

A genetically engineered, fully humanized immunoglobulin G4 monoclonal antibody that binds to the PD-1 RECEPTOR, activating an immune response to tumor cells. It is used as monotherapy or in combination with IPILIMUMAB for the treatment of advanced malignant MELANOMA. It is also used in the treatment of advanced or recurring NON-SMALL CELL LUNG CANCER; RENAL CELL CARCINOMA; and HODGKIN'S LYMPHOMA.

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.829  
D12.776.124.790.651.114.224.060.829  
D12.776.377.715.548.114.224.200.829

### **Non-Smokers**

Persons without a history of SMOKING.

**Tree locations:**

Persons M01.482

### **Norethindrone Acetate**

Acetate ester of norethindrone that is used as a long-term contraceptive.

**Tree locations:**

Norethindrone D04.210.500.668.651.693.651.500

### **Nuclear Receptor Interacting Protein 1**

A nuclear protein, characterized by multiple LXXLL motifs, that modulates activation of gene transcription by STEROID RECEPTORS, and transcriptional repression by NUCLEAR HORMONE RECEPTORS. It positively regulates gene expression of CIRCADIAN CLOCK PROTEINS AND PEPTIDES, including ARNTL TRANSCRIPTION FACTORS and CRYPTOCHROMES.

**Tree locations:**

Adaptor Proteins, Signal Transducing D12.644.360.024.315  
D12.776.157.057.086  
D12.776.476.024.396  
Nuclear Proteins D12.776.660.688

### **Nurses Improving Care for Health System Elders**

Nonprofit programs designed to address the complex needs of older adults and improve outcomes. They provide the principles, education and tools to support healthcare systems in transforming and achieving patient centered care.

AN: CATALOGER: use NAF entry

**Tree locations:**

Delivery of Health Care N05.300.559

### **Nut Proteins**

Proteins from NUTS.

PI: Plant Proteins (1986-2018)

**Tree locations:**

Fruit Proteins D12.776.256.356.500  
D12.776.765.354.500  
Plant Proteins, Dietary G07.203.300.428.920.450  
J02.500.428.920.375

## New MeSH Headings for 2019

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

### Nutrients

Various components of food that are required for nourishment.

PI: Food (1963-2018)

#### Tree locations:

Food G07.203.300.681

J02.500.681

Growth Substances D27.505.696.377.683

### O-(Chloroacetylcarbamoyl)fumagillol

Semisynthetic analog of fumagillin (a cyclohexane-sesquiterpene antibiotic isolated from ASPERGILLUS FUMIGATUS) that inhibits angiogenesis.

#### Tree locations:

Cyclohexanes D02.455.426.392.368.367.763

Sesquiterpenes D02.455.849.765.597

### Observational Study, Veterinary (Pub Type)

A work that reports on the results of a clinical study in which animal subjects may receive diagnostic, therapeutic, or other types of interventions, where the investigator does not assign participants to specific interventions.

PI: Observational Study (2013-2018)

#### Tree locations:

Clinical Study V03.175.750

### Occlusion Body Matrix Proteins

Proteins that assemble into a crystalline polyhedral or ovoid cylindrical shape around insect viruses, including BACULOVIRIDAE and CYPOVIRUS.

AN: note entry term GRANULIN MATRIX PROTEINS: do not confuse with GRANULINS

#### Tree locations:

Viral Structural Proteins D12.776.964.970.650

### Olanzapine

A benzodiazepine derivative that binds SEROTONIN RECEPTORS; MUSCARINIC RECEPTORS; HISTAMINE H1 RECEPTORS; ADRENERGIC ALPHA-1 RECEPTORS; and DOPAMINE RECEPTORS. It is an antipsychotic agent used in the treatment of SCIZOPHRENIA; BIPOLAR DISORDER; and MAJOR DEPRESSIVE DISORDER; it may also reduce nausea and vomiting in patients undergoing chemotherapy.

#### Tree locations:

Benzodiazepines D03.633.100.079.080.738

### Online Social Networking

Connectivity facilitated by computer-based communications among persons with family, work, or other common interests.

#### Tree locations:

Social Networking L01.143.910.250

## New MeSH Headings for 2019

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

### Orlistat

A lactone derivative of LEUCINE that acts as a pancreatic lipase inhibitor to limit the absorption of dietary fat; it is used in the management of obesity.

**Tree locations:**

Lactones D02.540.529

### Orthodontic Appliances, Fixed

ORTHODONTIC APPLIANCES attached to the teeth by adhesive material which cannot be removed from the mouth by the patient. These devices apply force to the teeth and supporting structures, thereby producing changes which control their growth and development.

PI: Orthodontics (1963-2018)

**Tree locations:**

Orthodontic Appliances E06.658.453.255

### Oxaliplatin

An organoplatinum complex in which the platinum atom is complexed with 1,2-diaminocyclohexane, and with an oxalate ligand which is displaced to yield active oxaliplatin derivatives. These derivatives form inter- and intra-strand DNA crosslinks that inhibit DNA replication and transcription. Oxaliplatin is an antineoplastic agent that is often administered with FLUOROURACIL and FOLINIC ACID in the treatment of metastatic COLORECTAL NEOPLASMS.

**Tree locations:**

Coordination Complexes D02.691.214.500

### Oxaprozin

An oxazole-propionic acid derivative, cyclooxygenase inhibitor, and non-steroidal anti-inflammatory drug that is used in the treatment of pain and inflammation associated with of OSTEOARTHRITIS; RHEUMATOID ARTHRITIS; and ARTHRITIS, JUVENILE.

**Tree locations:**

Oxazoles D03.383.129.462.590

Propionates D02.241.081.751.634

### Oxcarbazepine

A carbamazepine derivative that acts as a voltage-gated sodium channel blocker. It is used for the treatment of PARTIAL SEIZURES with or without secondary generalization. It is also an inducer of CYTOCHROME P-450 CYP3A4.

**Tree locations:**

Carbamazepine D03.633.300.240.127.500

### Oxindoles

Benzopyrroles with the nitrogen at the number one carbon adjacent to the benzyl and a carbonyl at the pyrrole ring typically at the 2-position.

PI: Indole Alkaloids (1963-2018)

**Tree locations:**

Indole Alkaloids D03.132.436.511

D03.633.100.473.402.528

## New MeSH Headings for 2019

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

### Palonosetron

Isoquinoline and quinuclidine derivative that acts as a 5-HT<sub>3</sub> RECEPTOR antagonist. It is used in the prevention of nausea and vomiting induced by cytotoxic chemotherapy, and for the prevention of post-operative nausea and vomiting.

**Tree locations:**

Isoquinolines D03.633.100.531.629  
Quinuclidines D03.605.687.319

### Pamidronate

An aminobisphosphonate that inhibits BONE RESORPTION and is used for the treatment of osteolytic lesions, bone pain, and severe HYPERCALCEMIA associated with malignancies.

**Tree locations:**

Diphosphonates D02.705.429.500.858

### Pancreatic Intraductal Neoplasms

EPITHELIAL NEOPLASMS with pancreatic ductal differentiation that arises from the EXOCRINE PANCREAS and grows mostly within the PANCREATIC DUCTS. They are characterized by the presence of intraductal masses with mostly papillary growth pattern. Overt production of MUCIN within the pancreatic duct is associated with pancreatic intraductal papillary-mucinous neoplasm but not intraductal tubulopapillary neoplasm.

PI: Pancreatic Neoplasms (2002-2018)

**Tree locations:**

Neoplasms, Ductal, Lobular, and Medullary C04.557.470.615.665  
Pancreatic Neoplasms C04.588.274.761.875  
C04.588.322.475.875  
C06.301.761.875  
C06.689.667.812  
C19.344.421.875

### Panitumumab

Recombinant human monoclonal antibody that binds to and inhibits the function of the EPIDERMAL GROWTH FACTOR RECEPTOR. It is used in the treatment of EGFR-expressing metastatic colorectal cancer that expresses wild-type ras gene (see GENES, RAS).

**Tree locations:**

Antibodies, Monoclonal, Humanized D12.776.124.486.485.114.224.060.864  
D12.776.124.790.651.114.224.060.864  
D12.776.377.715.548.114.224.200.864

### Panobinostat

An indole and hydroxamic acid derivative that acts as a HISTONE DEACETYLASE inhibitor. It is used as an antineoplastic agent in combination with BORTEZOMIB and DEXAMETHASONE for the treatment of MULTIPLE MYELOMA.

**Tree locations:**

Hydroxamic Acids D02.092.570.394.535  
D02.241.511.372.535  
Indoles D03.633.100.473.746

### Pantoprazole

2-pyridinylmethylsulfinylbenzimidazole proton pump inhibitor that is used in the treatment of GASTROESOPHAGEAL REFLUX and PEPTIC ULCER.

**Tree locations:**

2-Pyridinylmethylsulfinylbenzimidazoles D02.886.640.074.625  
D03.383.725.024.625  
D03.633.100.103.034.625

## New MeSH Headings for 2019

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

### PC-3 Cells

An epithelial cell line initiated from a human bone metastasis of a grade IV prostatic ADENOCARCINOMA.

AN: almost always NIM with no subheadings; check HUMAN; do not routinely add PROSTATIC NEOPLASMS or ADENOCARCINOMA

PI: Prostatic Neoplasms (1991-2018)

PI: Cell Line, Tumor (1991-2018)

#### Tree locations:

Cell Line, Tumor A11.251.210.190.690

Epithelial Cells A11.436.714

### Pea Proteins

Dietary proteins that are present in or isolated from the seeds of PISUM SATIVUM.

PI: Plant Proteins (1998-2018)

PI: Plant Proteins, Dietary (1986-2018)

#### Tree locations:

Plant Proteins, Dietary D12.776.256.920.500

D12.776.765.836.500

G07.203.300.428.920.500

J02.500.428.920.500

### Pharmacopoeia, Homeopathic (*Pub Type*)

Authoritative resource describing the composition, properties, manufacture, and quality control of HOMEOPATHIC REMEDIES.

AN: This heading is used as a Publication Type. Homeopathic Pharmacopoeias as a subject are indexed under the main heading PHARMACOPOEIAS, HOMEOPATHIC AS TOPIC. INDEXER: Do not use

#### Tree locations:

Pharmacopoeia V02.695.750

### Physical Functional Performance

#### Tree locations:

Physical Fitness N01.400.545.750

### Pinelectomy

Surgical removal of the PINEAL GLAND including resection of pineal tumor (PINEALOMA) and CYSTS.

PI: Pineal Gland (1963-2018)

#### Tree locations:

Endocrine Surgical Procedures E04.270.775

### Pioglitazone

A thiazolidinedione and PPAR GAMMA agonist that is used in the treatment of TYPE 2 DIABETES MELLITUS.

#### Tree locations:

Thiazolidinediones D02.886.675.933.250

D03.383.129.708.933.250



## New MeSH Headings for 2019

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

### Piperacillin, Tazobactam Drug Combination

An antibiotic combination product of piperacillin and tazobactam, a penicillanic acid derivative with enhanced beta-lactamase inhibitory activity, that is used for the intravenous treatment of intra-abdominal, pelvic, and skin infections and for community-acquired pneumonia of moderate severity. It is also used for the treatment of PSEUDOMONAS AERUGINOSA INFECTIONS.

#### Tree locations:

Drug Combinations D26.310.625  
Piperacillin D02.065.589.099.750.750.050.650.500  
D02.886.108.750.750.050.650.500  
D03.633.100.300.750.750.050.650.500  
Tazobactam D02.065.589.099.750.687.750.500  
D02.886.108.750.687.750.500  
D02.886.590.841.500  
D03.633.100.300.750.687.750.500

### Piperazine

An anti-nematodal agent effective against the intestinal nematodes ASCARIS LUMBRICOIDES (roundworm) and ENTEROBIUS VERMICULARIS (pinworm, threadworm). It produces a neuromuscular block leading to flaccid muscle paralysis in susceptible worms, which are then dislodged from the gut and expelled in feces.

AN: PIPERAZINES is also available

#### Tree locations:

Piperazines D03.383.606.413

### Plastination

Preservation technique in which epoxy polymers are used to preserve tissue or an organ resulting in anatomically authentic dry specimens often used in teaching of anatomy.

PI: Plastic Embedding (1991-2018)

#### Tree locations:

Preservation, Biological E02.792.400  
E05.760.400

### Polidocanol

An alkyl polyglycol ether of LAURYL ALCOHOL, chemically defined as an alcohol ethoxylate having an average alkyl chain of 12–14 carbon atoms, and an ethylene oxide chain of 9 ethylene oxide units. It is used as a detergent, and medically as a local anesthetic, and as a sclerosing agent for the treatment of ESOPHAGEAL AND GASTRIC VARICES and VARICOSE VEINS.

#### Tree locations:

Polyethylene Glycols D02.033.455.250.700.670  
D05.750.741.630  
D25.720.741.630  
J01.637.051.720.741.630

### Polyacetylene Polymer

A polyene polymer that consists of alternating single and double bonds.

#### Tree locations:

Polyenes D02.455.326.271.665.515  
Polymers D05.750.223  
D25.720.719  
J01.637.051.720.719

## New MeSH Headings for 2019

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

### **Polylactic Acid-Polyglycolic Acid Copolymer**

A co-polymer that consists of varying ratios of polylactic acid and polyglycolic acid. It is used as a matrix for drug delivery and for BONE REGENERATION.

**Tree locations:**

Lactic Acid D02.241.511.459.450.500  
Polyglycolic Acid D05.750.728.780.500  
D25.720.728.780.500  
J01.637.051.720.728.780.500

### **Population Health Management**

Community engagement, facility management, and organization, access to care that is timely and affordable; the availability of effective services, and high-quality primary health care. (World Health Organization)

PI: Population Health (2018)

**Tree locations:**

Delivery of Health Care N05.300.570

### **Post-Lyme Disease Syndrome**

A condition caused by long-lasting and ongoing infection with the spirochete *Borrelia burgdorferi* resulting in progressive inflammatory neurologic, neuromuscular, and dermatologic manifestations including ENCEPHALITIS; MYELITIS; acrodermatitis chronica atrophicans; and ARTHRITIS.

PI: Lyme Disease (1989-2018)

**Tree locations:**

Lyme Disease C01.252.400.155.569.800  
C01.252.400.825.480.850  
C01.252.847.193.569.800

### **Posttraumatic Growth, Psychological**

Positive change experienced as a result of the struggle with a major life crisis or a traumatic event.

PI: Adaptation, Psychological (2004-2018)

**Tree locations:**

Adaptation, Psychological F01.058.683  
Psychological Phenomena F02.647

### **Poultry Proteins**

Dietary proteins from POULTRY.

PI: Poultry (1999-2018)

PI: Meat (1999-2018)

**Tree locations:**

Meat Proteins D12.776.256.472.500  
G07.203.300.428.472.500  
G07.203.300.600.625.500  
J02.500.428.472.500  
J02.500.600.625.500  
Poultry G07.203.300.600.750.750  
J02.500.600.750.750

## New MeSH Headings for 2019

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

### **Pramipexole**

A benzothiazole derivative and dopamine agonist with antioxidant properties that is used in the treatment of PARKINSON DISEASE and RESTLESS LEGS SYNDROME.

**Tree locations:**

Benzothiazoles D03.383.129.708.089.514  
D03.633.100.185.514

### **Pregnane X Receptor**

Steroid receptor that binds and is activated by variety of endogenous compounds and XENOBIOTICS. It binds the response element in promoters of genes that encode CYTOCHROME P450 3A4 and ATP BINDING CASSETTE TRANSPORTER, SUBFAMILY B, MEMBER 1 proteins, and also activates the transcription of multiple genes involved in the metabolism and secretion of potentially harmful xenobiotics, drugs, and endogenous compounds. It is activated by the antibiotic RIFAMPICIN and various plant metabolites, such as hyperforin, guggulipid, colupulone, and ISOFLAVONES.

**Tree locations:**

Receptors, Steroid D12.776.826.750.075  
D12.776.930.778.175

### **Preprint (Pub Type)**

Scientific manuscript made available prior to PEER REVIEW.

**Tree locations:**

Manuscript V02.630.500

### **Preprints as Topic**

Works about scientific manuscripts made available prior to PEER REVIEW.

AN: do not confuse with the Publication Type PREPRINT

PI: Publishing (1998-2018)

**Tree locations:**

Publications L01.178.682.733  
Publishing L01.737.736

### **Prior Authorization**

A decision by a health insurer or plan that a health care service, treatment plan, prescription drug or durable medical equipment is medically necessary.

PI: Reimbursement Mechanisms (1981-2018)

PI: Insurance, Health (1971-2018)

**Tree locations:**

Insurance, Health N03.219.521.576.343.944

### **Procalcitonin**

A peptide prohormone precursor of CALCITONIN. It is normally present at low levels in serum, but is released into the bloodstream, primarily from neuroendocrine cells in the lungs and intestines, in response to INFLAMMATION and BACTERIAL INFECTIONS. It is a diagnostic marker for BACTEREMIA.

PI: Calcitonin (1981-2018)

**Tree locations:**

Peptide Hormones D06.472.699.666  
D12.644.548.744  
Protein Precursors D12.776.811.555

## New MeSH Headings for 2019

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

### Procedures and Techniques Utilization

Extent of use of procedures or techniques. It includes overuse and underuse.

**Tree locations:**

Statistics as Topic E05.318.740.675  
H01.548.832.750  
N05.715.360.750.660  
N06.850.520.830.675

### Proctectomy

Surgical resection of the RECTUM.

PI: Rectum/surgery (1968-2018)

**Tree locations:**

Digestive System Surgical Procedures E04.210.895

### Progranulins

A cysteine-rich, precursor glycoprotein, encoded by the granulin gene (GRN). It contains granulin-repeats separated by linker sequences that are cleaved by a variety of proteases to release the individual GRANULIN PEPTIDES. The mammalian progranulin is composed of a half granulin repeat followed by 7 granulin repeats. The mammalian GRANULINS are named PARAGRANULIN and granulin 1-7 for their order in the progranulin propeptide. Progranulin has growth-factor like effects and is expressed over a broad range of tissues. Under-expression of progranulin is linked to neurodegenerative diseases including FRONTOTEMPORAL DEMENTIA and NEURONAL CEROID LIPOFUSCINOSIS, while over-expression is linked to metabolic diseases including OBESITY, and INSULIN RESISTANCE.

PI: Intercellular Signaling Peptides and Proteins (1999-2018)

**Tree locations:**

Intercellular Signaling Peptides and Proteins D12.644.276.917  
D12.776.467.917  
D23.529.917  
Peptide Hormones D06.472.699.682  
Protein Precursors D12.776.811.703

### Progression-Free Survival

Length of time during and after the treatment of a disease, such as cancer, that a patient lives with the disease but the disease does not get worse.

PI: Disease-Free Survival (1995-2018)

**Tree locations:**

Survival Analysis E05.318.740.998.738  
N05.715.360.750.795.738  
N06.850.520.830.998.825  
Treatment Outcome E01.789.800.285  
N04.761.559.590.800.474  
N05.715.360.575.575.800.474

## New MeSH Headings for 2019

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

### Protein Carbamylation

Non-enzymatic addition of carbamoyl (-CONH<sub>2</sub>) on protein or amino acid functional groups from isocyanic acid or CARBAMOYL-PHOSPHATE. Carbamylation may induce a structural change that results in a functional loss and serves as a biomarker for protein aging and disease pathophysiology.

PI: Carbamates (1966-2018)

PI: Protein Processing, Post-Translational (2003-2018)

#### Tree locations:

Oxidative Stress G03.673.518  
G07.775.750.625  
Protein Processing, Post-Translational G02.111.660.871.790.600.250  
G02.111.691.600.250  
G03.734.871.790.600.250  
G05.308.670.600.250

### Public Expenditures

Expenses of public funds incurred by government bodies: state, regional and local.

#### Tree locations:

Economics N03.219.840

### Pyrolysis

High temperature decomposition without addition of extra air or oxygen. It yields syngas, bio-oil and bio-char.

PI: Incineration (2001-2018)

#### Tree locations:

Chemical Phenomena G02.785

### Quantitative Light-Induced Fluorescence

A FLUORESCENCE technique used in DENTISTRY for the analysis of mineral changes in DENTAL ENAMEL to detect early DENTAL CRIES, or for the evaluation other normal or pathological processes or lesions of the dental enamel.

PI: Fluorescence (2000-2018)

#### Tree locations:

Diagnosis, Oral E06.342.626  
Fluorometry E05.196.712.516.600.543

### Quinapril

A tetrahydroisoquinoline derivative and ANGIOTENSIN CONVERTING ENZYME inhibitor that is used in the treatment of HYPERTENSION and HEART FAILURE.

#### Tree locations:

Tetrahydroisoquinolines D03.633.100.531.820.250

### Race Factors

A constituent element or influence that could be used in studies for racial disparities as variables such as those related to risk factors and disease and or differential access to services.

#### Tree locations:

Epidemiologic Factors N05.715.350.463

## New MeSH Headings for 2019

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

### Radiofrequency Ablation

Removal of tissue using heat generated from electrodes delivering an alternating electrical current in the frequency of RADIO WAVES.

PI: Catheter Ablation (1991-2018)

#### Tree locations:

Ablation Techniques E04.014.760  
Radiofrequency Therapy E02.808.750

### Radiofrequency Therapy

The use of RADIO WAVES to conduct therapeutic procedures. The specific frequency, dosage, and intensity used vary depending on the desired effects which include heating, electrical stimulation, or ablation of tissues.

#### Tree locations:

Therapeutics E02.808

### Ranunculales

An order of flowering plants also known as the buttercup family.

#### Tree locations:

Magnoliopsida B01.650.940.800.575.912.250.836

### Reboxetine

A morpholine derivative that is a selective and potent noradrenaline reuptake inhibitor; it is used in the treatment of DEPRESSIVE DISORDER.

#### Tree locations:

Morpholines D03.383.533.640.682

### Receptor, Transforming Growth Factor-beta Type I

A transmembrane serine-threonine kinase that forms a heteromeric complex with TYPE II TGF-BETA RECEPTORS to bind TGF-BETA and regulate a variety of physiological and pathological processes including CELL CYCLE ARREST; CELL PROLIFERATION; CELL DIFFERENTIATION; WOUND HEALING; EXTRACELLULAR MATRIX production, immunosuppression and ONCOGENESIS.

#### Tree locations:

Protein-Serine-Threonine Kinases D08.811.913.696.620.682.700.789  
Receptors, Transforming Growth Factor beta D12.776.543.750.705.852.720.500  
D12.776.543.750.750.400.820.750

### Receptor, Transforming Growth Factor-beta Type II

A transmembrane serine-threonine kinase that forms a heteromeric complex with TYPE I TGF-BETA RECEPTORS when bound to TGF-BETA. This receptor complex regulates a variety of physiological and pathological processes including CELL CYCLE ARREST; CELL PROLIFERATION; CELL DIFFERENTIATION; WOUND HEALING; EXTRACELLULAR MATRIX production, immunosuppression and ONCOGENESIS.

#### Tree locations:

Protein-Serine-Threonine Kinases D08.811.913.696.620.682.700.795  
Receptors, Transforming Growth Factor beta D12.776.543.750.705.852.720.750  
D12.776.543.750.750.400.820.875

## New MeSH Headings for 2019

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

### Receptors, Chimeric Antigen

Synthetic cellular receptors that reprogram T-LYMPHOCYTES to selectively bind antigens.

PI: Receptors, Antigen, T-Cell (1993-2018)

PI: Recombinant Fusion Proteins (1993-2018)

#### Tree locations:

Receptors, Antigen, T-Cell D12.776.543.750.705.816.824.150  
Receptors, Artificial D12.776.543.750.655.500  
D12.776.826.387.500

### Regenerative Endodontics

A dental specialty concerned with biologically-based procedures designed to physiologically replace damaged tooth structures, including dentin and root structures, as well as cells of the pulp-dentin complex.

PI: Endodontics (2007-2018)

#### Tree locations:

Endodontics E06.397.737  
H02.163.876.213.500

### Remifentanyl

A piperidine-propionate derivative and opioid analgesic structurally related to FENTANYL. It functions as a short-acting MU OPIOID RECEPTOR agonist, and is used as an analgesic during induction or maintenance of general anesthesia, following surgery, during childbirth, and in mechanically ventilated patients under intensive care.

#### Tree locations:

Piperidines D03.383.621.828  
Propionates D02.241.081.751.756

### Respect

A feeling of deep admiration for someone or something elicited by their abilities, qualities, or achievements and regard for the feelings, wishes, or rights of others.

#### Tree locations:

Attitude F01.100.907

### Resveratrol

A stilbene and non-flavonoid polyphenol produced by various plants including grapes and blueberries. It has anti-oxidant, anti-inflammatory, cardioprotective, anti-mutagenic, and anti-carcinogenic properties. It also inhibits platelet aggregation and the activity of several DNA HELICASES in vitro.

#### Tree locations:

Polyphenols D02.455.426.559.389.657.715.500  
D03.633.100.150.266.450.260.777.500  
Stilbenes D02.455.426.559.389.150.700.375

### Retention in Care

Patient's regular engagement with medical care after initial entry into the system.

PI: Continuity of Patient Care (2012-2018)

#### Tree locations:

Continuity of Patient Care E02.760.169.671  
N02.421.585.169.671

## New MeSH Headings for 2019

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

### Rickettsiales

Order in class ALPHAPROTEOBACTERIA that are endosymbionts in eukaryotic cells. High morbidity and mortality is frequently associated with Rickettsiales transmitted by insect vectors.

PI: Rickettsia (1963-2018)

#### **Tree locations:**

Alphaproteobacteria B03.660.050.783

### Rifaximin

A synthetic rifamycin derivative and anti-bacterial agent that is used for the treatment of GASTROENTERITIS caused by ESCHERICHIA COLI INFECTIONS. It may also be used in the treatment of HEPATIC ENCEPHALOPATHY.

#### **Tree locations:**

Rifamycins D03.633.400.811.850  
D04.345.295.750.850

### Rilmenidine

Oxazole derivative that acts as an agonist for ALPHA-2 ADRENERGIC RECEPTORS and IMIDAZOLINE RECEPTORS. It is used in the treatment of HYPERTENSION.

#### **Tree locations:**

Oxazoles D03.383.129.462.778

### Rimonabant

A pyrazole and piperidine derivative that acts as a selective cannabinoid type-1 receptor (CB1 RECEPTOR) antagonist. It inhibits the proliferation and maturation of ADIPOCYTES, improves lipid and glucose metabolism, and regulates food intake and energy balance. It is used in the management of OBESITY.

#### **Tree locations:**

Piperidines D03.383.621.834  
Pyrazoles D03.383.129.539.888

### Ringer's Lactate

A crystalloid solution that contains SODIUM CHLORIDE; SODIUM LACTATE; POTASSIUM CHLORIDE; and CALCIUM CHLORIDE. It is used for FLUID THERAPY.

#### **Tree locations:**

Crystalloid Solutions D26.776.498.500.500

### Ringer's Solution

An isotonic solution; the base contains SODIUM CHLORIDE; POTASSIUM CHLORIDE; and CALCIUM CHLORIDE. Other chemicals, such as SODIUM BICARBONATE or acetate salts may be added, as needed for pH buffering, or as an energy source.

#### **Tree locations:**

Isotonic Solutions D26.776.498.750



## New MeSH Headings for 2019

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

### RNA, Mitochondrial

RNA molecules encoded by the MITOCHONDRIAL GENOME.

**Tree locations:**

RNA D13.444.735.580

### Road Rage

Extreme anger generated from a traffic incident or accident that leads to an assault with a motor vehicle or other dangerous weapon by the operator or passenger(s) of one motor vehicle on the operator or passenger(s) of another motor vehicle.

PI: Automobile Driving (2000-2018)

**Tree locations:**

Automobile Driving I03.125.824  
Dangerous Behavior F01.145.263.750  
I01.880.735.223.375  
Rage F01.470.093.640.500

### Rocuronium

An androstanol non-depolarizing neuromuscular blocking agent. It has a mono-quarternary structure and is a weaker nicotinic antagonist than PANCURONIUM.

**Tree locations:**

Androstanols D04.210.500.054.040.783

### Ropivacaine

An anilide used as a long-acting local anesthetic. It has a differential blocking effect on sensory and motor neurons.

**Tree locations:**

Anilides D02.065.199.825  
D02.092.146.113.825

### Roscovitine

A purine derivative and competitive inhibitor of CYCLIN-DEPENDENT KINASES that has therapeutic potential as an antineoplastic and antiviral agent.

**Tree locations:**

Purines D03.633.100.759.776

### Rosiglitazone

A thiazolidinedione that functions as a selective agonist for PPAR GAMMA. It improves INSULIN SENSITIVITY in adipose tissue, skeletal muscle, and the liver of patients with TYPE 2 DIABETES MELLITUS.

**Tree locations:**

Thiazolidinediones D02.886.675.933.500  
D03.383.129.708.933.500

## New MeSH Headings for 2019

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

### Sadness

Feeling or showing sorrow; the sense of being unhappy. It is related to DEPRESSION but is not synonymous.

**Tree locations:**

Emotions F01.470.933

### Saline Solution

A crystalloid solution that contains 9.0g of SODIUM CHLORIDE per liter of water. It has a variety of uses, including: as a CONTACT LENS SOLUTION, in OPHTHALMIC SOLUTIONS and NASAL LAVAGE, in wound irrigation, and for FLUID THERAPY.

**Tree locations:**

Crystalloid Solutions D26.776.498.500.750

### Salt Stress

The condition that results from ion toxicity due to ion imbalances (e.g., excessive Na<sup>+</sup> and deficiency in Mg<sup>++</sup>).

PI: Sodium Chloride (1969-2018)
---------------------------------

PI: Stress, Physiological (1967-2018)
---------------------------------------

PI: Salt-Tolerance (1999-2018)
--------------------------------

PI: Salinity (1983-2018)
--------------------------

**Tree locations:**

Stress, Physiological G07.775.813

### Saporins

Type 1 ribosome inactivating proteins derived from SAPONARIA OFFICINALIS that function through endohydrolysis of the N-glycosidic bond at single ADENOSINE residues of 28S RIBOSOMAL RNA. They are used as IMMUNOTOXINS.

**Tree locations:**

Ribosome Inactivating Proteins, Type 1 D08.811.277.450.430.700.500.500  
D12.776.765.710.500.250

### Saxifragales

Order of dicotyledonous flowering plants consisting of 16 families, 112 genera, and nearly 2,500 species.

**Tree locations:**

Magnoliopsida B01.650.940.800.575.912.250.890

### Screen Time

Period of activities done in front of an electronic screen, such as watching TV, working on a computer, or playing video games.

**Tree locations:**

Human Activities I03.723

## New MeSH Headings for 2019

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

### Secretagogues

Substances that stimulate the secretion of another substance.

**Tree locations:**

Physiological Effects of Drugs D27.505.696.937

### Self-Neglect

Profound inattention by individuals to their own health and hygiene.

**Tree locations:**

Activities of Daily Living I03.050.625  
Social Problems I01.880.735.657

### Sevoflurane

A non-explosive inhalation anesthetic used in the induction and maintenance of general anesthesia. It does not cause respiratory irritation and may also prevent PLATELET AGGREGATION.

**Tree locations:**

Hydrocarbons, Fluorinated D02.455.526.510.717  
Methyl Ethers D02.355.601.810

### Shared Governance, Nursing

Model of nursing practice with shared decision processes designed to integrate core values and beliefs that professional practice embraces, as a means of achieving quality care.

PI: Organization and Administration (2000-2018)

**Tree locations:**

Models, Nursing E05.599.645.500  
Nursing Staff, Hospital N02.360.680.490.500  
N02.360.740.523.500  
Organization and Administration N04.452.921

### Shellfish Proteins

Proteins found in SHELLFISH.

PI: Shellfish (1965-2018)

PI: Proteins (1965-2018)

**Tree locations:**

Meat Proteins D12.776.256.472.750  
G07.203.300.428.472.750  
G07.203.300.600.625.750  
J02.500.428.472.750  
J02.500.600.625.750  
Shellfish G07.203.300.600.875.700.500  
J02.500.600.875.700.500

### Silybin

The major active component of silymarin flavonoids extracted from seeds of the MILK THISTLE, *Silybum marianum*; it is used in the treatment of HEPATITIS; LIVER CIRRHOSIS; and CHEMICAL AND DRUG INDUCED LIVER INJURY, and has antineoplastic activity; silybins A and B are diastereomers.

**Tree locations:**

Silymarin D03.383.663.283.266.450.268.777.500  
D03.633.100.150.266.450.268.777.500

## New MeSH Headings for 2019

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

### **Simendan**

A hydrazone and pyridazine derivative; the levo-form is a phosphodiesterase III inhibitor, calcium-sensitizing agent, and inotropic agent that is used in the treatment of HEART FAILURE.

**Tree locations:**

Hydrazones D02.442.288.610

Pyridazines D03.383.710.802

### **Sitting Position**

**Tree locations:**

Posture G11.427.695.575

### **Sleep, Slow-Wave**

A stage of sleep characterized by synchronized wave activity as observed by ELECTROENCEPHALOGRAM; the waves exhibit a frequency of 0.5 to 2 Hz, and a peak-to-peak amplitude greater than 75 microvolts.

**Tree locations:**

Sleep Stages F02.830.855.796.835

G11.561.803.754.835

### **Sleepiness**

Compelling urge to sleep.

**Tree locations:**

Signs and Symptoms C23.888.900

### **Smoking Cessation Agents**

Substances that facilitate the cessation of tobacco smoking.

**Tree locations:**

Therapeutic Uses D27.505.954.810

### **Societies, Veterinary**

Organizations having institutional membership limited to veterinarians and veterinary institutions.

**Tree locations:**

Societies N03.540.828.919

## New MeSH Headings for 2019

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

### Sodium Citrate

Sodium salts of citric acid that are used as buffers and food preservatives. They are used medically as anticoagulants in stored blood, and for urine alkalization in the prevention of KIDNEY STONES.

**Tree locations:**

Citric Acid D02.241.081.901.434.249.875

### Sodium Sulfate Cotransporter

A multi-pass protein that consists of 13 transmembrane helices. It is expressed primarily by renal epithelial cells and functions as a co-transporter of sodium and sulfate, to mediate sulfate reabsorption in the kidney.

**Tree locations:**

Cation Transport Proteins D12.776.157.530.450.250.878  
D12.776.543.585.450.250.883  
Sulfate Transporters D12.776.157.530.450.074.875.500  
D12.776.157.530.937.929.500  
D12.776.543.585.450.074.875.500  
D12.776.543.585.937.963.500  
Symporters D12.776.157.530.450.625.390  
D12.776.543.585.450.625.437

### Sodium-Glucose Transporter 2 Inhibitors

Compounds that inhibit SODIUM-GLUCOSE TRANSPORTER 2. They lower blood sugar by preventing the reabsorption of glucose by the kidney, and are used in the treatment of TYPE 2 DIABETES MELLITUS.

**Tree locations:**

Hypoglycemic Agents D27.505.696.422.750  
Molecular Mechanisms of Pharmacological Action D27.505.519.936

### Solanales

An order of flowering plants comprising tropical and temperate species, major crop plants such as potatoes, tomatoes, bell peppers, eggplants, tobacco, and the garden petunia. Its largest family is the SOLANACEAE.

**Tree locations:**

Magnoliopsida B01.650.940.800.575.912.250.908

### Sorafenib

A niacinamide and phenylurea derivative that inhibits multiple intracellular and cell surface kinases thought to be involved in ANGIOGENESIS, including RAF KINASES and VEGF RECEPTORS. It is used in the treatment of advanced RENAL CELL CARCINOMA and HEPATOCELLULAR CARCINOMA, and for treatment of THYROID CARCINOMA refractory to radioactive iodine therapy.

**Tree locations:**

Niacinamide D03.066.515.530.750  
D03.383.725.547.530.750  
Phenylurea Compounds D02.455.426.559.389.703.757  
D02.948.681.757

### Squamous Cell Carcinoma of Head and Neck

The most common type of head and neck carcinoma that originates from cells on the surface of the NASAL CAVITY; MOUTH; PARANASAL SINUSES, SALIVARY GLANDS, and LARYNX. Mutations in TNFRSF10B, PTEN, and ING1 genes are associated with this cancer.

AN: coordinate IM with HEAD AND NECK NEOPLASMS (IM)

**Tree locations:**

Carcinoma, Squamous Cell C04.557.470.200.400.565  
Head and Neck Neoplasms C04.588.443.177

## New MeSH Headings for 2019

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

### Standing Position

Human position in which the body is held in an upright orthostatic position and supported only by the feet.

**Tree locations:**

Posture G11.427.695.600

### Substandard Drugs

Drugs formulations that do not meet established standards.

**Tree locations:**

Pharmaceutical Preparations D26.894

### Sugammadex

A gamma-cyclodextrin that functions as a reversal agent for the neuromuscular blocker ROCURONIUM BROMIDE.

**Tree locations:**

gamma-Cyclodextrins D04.345.103.444.500  
D09.698.365.855.400.375.444.500

### Sulfanilamide

A short-acting sulfonamide used as an anti-infective agent. It has lower anti-bacterial activity than SULFAMETHOXAZOLE.

**Tree locations:**

Sulfanilamides D02.065.884.725.885  
D02.092.146.807.885  
D02.886.590.700.725.885

### Sulfate Transporters

Highly conserved families of transmembrane anion transporters that occur in both prokaryotes and eukaryotes. In humans, they are expressed by epithelial cells in a variety of tissues and participate in diverse physiologic functions such as cell motility and regulating the composition and acidity of body fluids. Some Slc13 family proteins function as sodium ion coupled co-transporters of sulfate and other anions.

PI: Anion Transport Proteins (2002-2018)

**Tree locations:**

Anion Transport Proteins D12.776.157.530.450.074.875  
D12.776.543.585.450.074.875  
Solute Carrier Proteins D12.776.157.530.937.929  
D12.776.543.585.937.963

### Sulfathiazole

A sulfathiazole compound that is used as a short acting anti-infective agent. It is no longer commonly used systemically due to its toxicity, but may still be applied topically in combination with other drugs for the treatment of vaginal and skin infections, and is still used in veterinary medicine.

**Tree locations:**

Sulfathiazoles D02.065.884.725.935.906  
D02.092.146.807.935.906  
D02.886.590.700.725.935.906  
D02.886.675.725.500  
D03.383.129.708.725.500

## New MeSH Headings for 2019

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

### Sunitinib

An indole and pyrrole derivative that inhibits VEGF-R2 and PDGFR BETA RECEPTOR TYROSINE KINASES. It is used as an antineoplastic agent for the treatment of GASTROINTESTINAL STROMAL TUMORS, and for treatment of advanced or metastatic RENAL CELL CARCINOMA.

**Tree locations:**

Indoles D03.633.100.473.877

Pyrroles D03.383.129.578.823

### Survivin

An apoptosis inhibitory protein that contains a single baculoviral IAP repeat (BIR) domain. It associates with MICROTUBULES and functions to regulate cell proliferation as a component of the chromosome passage protein complex (CPC), performing essential roles for localization of the complex, chromosome alignment, segregation during MITOSIS and CYTOKINESIS, and assembly of the MITOTIC SPINDLE. It is expressed by fetal kidney and liver cells and highly expressed in ADENOCARCINOMA and high-grade LYMPHOMA.

PI: Microtubule-Associated Proteins (1997-2018)
---

PI: Neoplasm Proteins (1997-2018)
-----------------------------------

PI: Inhibitor of Apoptosis Proteins (2012-2018)
---

**Tree locations:**

Cell Cycle Proteins D12.776.167.576

Inhibitor of Apoptosis Proteins D12.644.360.075.437.625

D12.776.476.075.437.625

Microtubule-Associated Proteins D12.776.220.600.450.495

### Sustainable Development

A process of change in which the exploitation of resources, the direction of investments, the orientation of technological development; and institutional change are all in harmony and enhance both current and future potential to meet human needs and aspirations. (<http://www.un-documents.net/ocf-02.htm#I>)

**Tree locations:**

Conservation of Natural Resources N06.230.080.900

Public Policy I01.655.500.608.700

### Syndemic

Synergistically-interacting health conditions producing excess disease occurrence in a population.

**Tree locations:**

Epidemiologic Factors N06.850.490.937

### Synthetic Drugs

Legal or illegal drugs created using SYNTHETIC CHEMISTRY TECHNIQUES.

PI: Designer Drugs (1990-2018)
--------------------------------

PI: Pharmaceutical Preparations (1963-2018)
---

PI: Street Drugs (2001-2018)
------------------------------

**Tree locations:**

Pharmaceutical Preparations D26.909

## New MeSH Headings for 2019

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

### Systematic Review (*Pub Type*)

A review of primary literature in health and health policy that attempts to identify, appraise, and synthesize all the empirical evidence that meets specified eligibility criteria to answer a given research question. Its conduct uses explicit methods aimed at minimizing bias in order to produce more reliable findings regarding the effects of interventions for prevention, treatment, and rehabilitation that can be used to inform decision making.

**Tree locations:**

Study Characteristics V03.850

### Systematic Reviews as Topic

Works about a review of primary literature in health and health policy that attempt to identify, appraise, and synthesize all the empirical evidence that meets specified eligibility criteria to answer a given research question. Its conduct uses explicit methods aimed at minimizing bias in order to produce more reliable findings regarding the effects of interventions for prevention, treatment, and rehabilitation that can be used to inform decision making.

**Tree locations:**

Review Literature as Topic L01.178.682.759.575

### Tamsulosin

A sulfonamide derivative and adrenergic alpha-1 receptor antagonist that is used to relieve symptoms of urinary obstruction caused by BENIGN PROSTATIC HYPERPLASIA.

**Tree locations:**

Sulfonamides D02.065.884.863  
D02.886.590.700.863

### Tandem Affinity Purification

A technique used to isolate specific interacting partners of MACROMOLECULAR COMPLEXES that have been assembled with a tagged component (bait) that interacts with other partners in the complex. The interacting bait component is labeled with a dual-affinity tag that allows for capture of the complex by IMMUNOPRECIPITATION, followed by purification of only the partners of the complex interacting with the bait by affinity chromatography.

PI: Chromatography, Affinity (2002-2018)

**Tree locations:**

Chromatography, Affinity E05.196.181.400.170.750

### Tapentadol

An opioid analgesic, MU OPIOID RECEPTOR agonist, and noradrenaline reuptake inhibitor that is used in the treatment of moderate to severe pain, and of pain associated with DIABETIC NEUROPATHIES.

**Tree locations:**

Phenols D02.455.426.559.389.657.926

### Tazobactam

A penicillanic acid and sulfone derivative and potent BETA-LACTAMASE inhibitor that enhances the activity of other antibacterial agents against beta-lactamase producing bacteria.

**Tree locations:**

Penicillanic Acid D02.065.589.099.750.687.750  
D02.886.108.750.687.750  
D03.633.100.300.750.687.750  
Sulfones D02.886.590.841



## New MeSH Headings for 2019

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

### **Telbivudine**

A thymidine derivative and antiviral agent that inhibits DNA synthesis by HEPATITIS B VIRUS and is used for the treatment of CHRONIC HEPATITIS B.

**Tree locations:**

Thymidine D03.383.742.680.705.888  
D13.570.230.855.888  
D13.570.685.705.888

### **Telmisartan**

A biphenyl compound and benzimidazole derivative that acts as an angiotensin II type 1 receptor antagonist. It is used in the management of HYPERTENSION.

**Tree locations:**

Benzimidazoles D03.633.100.103.791  
Biphenyl Compounds D02.455.426.559.389.185.849

### **Temozolomide**

A dacarbazine derivative that is used as an alkylating antineoplastic agent for the treatment of MALIGNANT GLIOMA and MALIGNANT MELANOMA.

**Tree locations:**

Dacarbazine D02.925.200.500  
D03.383.129.308.240.500

### **Tenecteplase**

A tissue plasminogen activator enzyme that acts as a fibrinolytic agent; it is used for the dissolution of blood clots, such as those that occur in acute MYOCARDIAL INFARCTION.

**Tree locations:**

Tissue Plasminogen Activator D08.811.277.656.300.760.875.500  
D08.811.277.656.959.350.875.500  
D12.776.124.125.662.768.500

### **Terbinafine**

A naphthalene derivative that inhibits fungal SQUALENE EPOXIDASE and is used to treat DERMATOMYCOSES of the skin and nails.

**Tree locations:**

Naphthalenes D02.455.426.559.847.638.953  
D04.615.638.953

### **Terlipressin**

An inactive peptide prodrug that is slowly converted in the body to lypressin. It is used to control bleeding of ESOPHAGEAL VARICES and for the treatment of HEPATORENAL SYNDROME.

**Tree locations:**

Lypressin D06.472.699.631.692.781.400.675  
D12.644.400.900.400.675  
D12.644.456.925.480.750  
D12.644.548.691.692.781.400.675  
D12.776.631.650.937.400.675

## New MeSH Headings for 2019

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

### Therapeutic Alliance

A relational factor in counseling that includes three dimensions: goal consensus between counselor and client, collaboration on counseling-related tasks, and emotional bonding. It is referred to as the working alliance between a therapist and a client in psychotherapy and closely correlated with positive client outcomes.

**Tree locations:**

Professional-Patient Relations F01.829.401.650.918  
Psychotherapeutic Processes F04.754.720.605  
Psychotherapy F04.754.932

### Thiamethoxam

A nitro-oxazine and thiazole derivative that is used as a broad spectrum neonicotinoid insecticide.

**Tree locations:**

Neonicotinoids D03.383.464.500  
Nitro Compounds D02.640.910  
Oxazines D03.383.533.820  
Thiazoles D02.886.675.884  
D03.383.129.708.884

### Thymalfasin

A thymus hormone polypeptide found in thymosin fraction 5 (a crude thymus gland extract) but now produced by synthesis. It is used alone or with interferon as an immunomodulator for the treatment of CHRONIC HEPATITIS B and HEPATITIS C. Thymalfasin is also used for the treatment of chemotherapy-induced immunosuppression, and to enhance the efficacy of influenza and hepatitis B vaccines in immunocompromised patients.

**Tree locations:**

Thymosin D06.472.910.850.500  
D12.644.548.869.500  
D12.776.922.500

### Thyroid Cancer, Papillary

An ADENOCARCINOMA that originates from follicular cells of the THYROID GLAND and accounts for the majority of THYROID CANCER cases. Cells exhibit enlarged, oval, or elongated morphologies with clear, round, nuclei. Fusions of RET, NTRK1, TPM3, and PCM1 genes are associated with this cancer.

AN: coordinate IM with THYROID NEOPLASMS (IM)

**Tree locations:**

Adenocarcinoma, Papillary C04.557.470.200.025.085.612  
Thyroid Neoplasms C04.588.322.894.400  
C04.588.443.915.400  
C19.344.894.400  
C19.874.788.400

### Tiagabine

A nipecotic acid derivative that acts as a GABA uptake inhibitor and anticonvulsant agent. It is used in the treatment of EPILEPSY, for refractory PARTIAL SEIZURES.

**Tree locations:**

Nipecotic Acids D03.066.566.500  
D03.383.621.566.500

## New MeSH Headings for 2019

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

### **Ticagrelor**

An adenosine triphosphate analogue and reversible P2Y<sub>12</sub> PURINORECEPTOR antagonist that inhibits ADP-mediated PLATELET AGGREGATION. It is used for the prevention of THROMBOEMBOLISM by patients with ACUTE CORONARY SYNDROME or a history of MYOCARDIAL INFARCTION.

**Tree locations:**

Adenosine D03.633.100.759.590.138.806  
D13.570.583.138.806  
D13.570.800.096.815

### **Tigecycline**

A tetracycline derivative that acts as a protein synthesis inhibitor. It is used as an antibacterial agent for the systemic treatment of complicated skin and intra-abdominal infections. It is also used for the treatment of community-acquired pneumonia.

**Tree locations:**

Tetracyclines D02.455.426.559.847.562.900.937  
D04.615.562.900.937

### **Tinzaparin**

A low-molecular-weight heparin with anticoagulant properties that is used in the prevention and treatment of VENOUS THROMBOEMBOLISM, and to prevent clotting during EXTRACORPOREAL CIRCULATION.

**Tree locations:**

Heparin, Low-Molecular-Weight D09.698.373.400.300.800

### **Tirapazamine**

A triazine derivative that introduces breaks into DNA strands in hypoxic cells, sensitizing tumor cells to the cytotoxic activity of other drugs and radiation.

**Tree locations:**

Triazines D03.383.931.867

### **Tirofiban**

Tyrosine analog and PLATELET GLYCOPROTEIN GPIIB-IIIa COMPLEX antagonist that inhibits PLATELET AGGREGATION and is used in the treatment of ACUTE CORONARY SYNDROME.

**Tree locations:**

Tyrosine D12.125.072.050.875.875

### **Tobramycin, Dexamethasone Drug Combination**

A topical preparation of tobramycin and dexamethasone that is used for treating or preventing superficial bacterial infections of the eye.

**Tree locations:**

Dexamethasone D04.210.500.745.432.769.344.650  
D04.210.500.908.238.650  
Drug Combinations D26.310.813  
Tobramycin D09.408.051.476.600.800.500

## New MeSH Headings for 2019

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

### Tolcapone

A benzophenone and nitrophenol compound that acts as an inhibitor of CATECHOL O-METHYLTRANSFERASE, an enzyme involved in the metabolism of DOPAMINE and LEVODOPA. It is used in the treatment of PARKINSON DISEASE in patients for whom levodopa is ineffective or contraindicated.

**Tree locations:**

Benzophenones D02.455.426.559.389.134.875  
D02.522.223.875  
Nitrophenols D02.455.426.559.389.657.566.845  
D02.640.743.845

### Tolvaptan

A benzazepine derivative and selective VASOPRESSIN V2 RECEPTOR antagonist that is used to treat euvolemic and hypervolemic HYPONATREMIA. It is also used in the treatment of rapidly progressing AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE to slow the rate of cyst development and renal insufficiency.

**Tree locations:**

Benzazepines D03.633.100.079.875

### Topiramate

A sulfamate-substituted fructose analog that was originally identified as a hypoglycemic agent. It is used for the treatment of EPILEPSY and MIGRAINE DISORDERS, and may also promote weight loss.

**Tree locations:**

Fructose D09.947.875.359.250.500  
D09.947.875.465.354.500

### Torsemide

A pyridine and sulfonamide derivative that acts as a sodium-potassium chloride symporter inhibitor (loop diuretic). It is used for the treatment of EDEMA associated with CONGESTIVE HEART FAILURE; CHRONIC RENAL INSUFFICIENCY; and LIVER DISEASES. It is also used for the management of HYPERTENSION.

**Tree locations:**

Pyridines D03.383.725.905  
Sulfonamides D02.065.884.891  
D02.886.590.700.891

### Trabectedin

A complex structure that includes isoquinolines joined by a cyclic ester; it is a DNA-binding agent and guanine N2 alkylator derived from the marine tunicate, Ecteinascidia turbinata. Trabectedin is used for the treatment of advanced soft-tissue SARCOMA, after failure of ANTHRACYCLINES or IFOSFAMIDE drug therapy.

**Tree locations:**

Dioxoles D03.383.246.619  
Tetrahydroisoquinolines D03.633.100.531.820.781

### Traffic-Related Pollution

Contamination of the ENVIRONMENT by VEHICLE EMISSIONS.

PI: Air Pollution (1970-2018)

**Tree locations:**

Environmental Pollution N06.850.460.685

## New MeSH Headings for 2019

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

### Triclabendazole

Benzimidazole antiplatyhelminthic agent that is used for the treatment of FASCIOLIASIS and PARAGONIMIASIS.

**Tree locations:**

Benzimidazoles D03.633.100.103.925

### Troglitazone

A chroman and thiazolidinedione derivative that acts as a PEROXISOME PROLIFERATOR-ACTIVATED RECEPTORS (PPAR) agonist. It was formerly used in the treatment of TYPE 2 DIABETES MELLITUS, but has been withdrawn due to hepatotoxicity.

**Tree locations:**

Chromans D03.383.663.283.240.612

D03.633.100.150.240.612

Thiazolidinediones D02.886.675.933.750

D03.383.129.708.933.750

### Tropisetron

An indole derivative and 5-HT<sub>3</sub> RECEPTOR antagonist that is used for the prevention of nausea and vomiting.

**Tree locations:**

Indoles D03.633.100.473.896

### Tuberous Sclerosis Complex 1 Protein

An intracellular signaling and tumor suppressor protein that forms a complex with TUBEROUS SCLEROSIS COMPLEX 2 PROTEIN (TSC2) and other signaling factors to negatively regulate MTORC1 signaling and affect cell growth and proliferation. Structurally, it interacts with TSC2 through its N-terminal, which also contains GSK-3BETA phosphorylation sites and a RHO-KINASE activation domain. It also contains a C-terminal coiled-coil domain and ezrin-radixin moesin (ERM) domain. Mutations in the TSC1 gene are associated with TUBEROUS SCLEROSIS.

**Tree locations:**

Intracellular Signaling Peptides and Proteins D12.644.360.925

D12.776.476.932

Tumor Suppressor Proteins D12.776.624.776.766

### Tuberous Sclerosis Complex 2 Protein

An intracellular signaling and tumor suppressor protein that forms a complex with TUBEROUS SCLEROSIS COMPLEX 1 PROTEIN (TSC1) and other signaling factors to negatively regulate MTORC1 and affect cell growth and proliferation. It can also function as GTPASE-ACTIVATING PROTEIN (GAP) for RHEB GTPASE to activate mTORC1 independent of its role in the complex. Structurally, it interacts with TSC1 through its N-terminus, which also contains a leucine zipper and coiled-coil region. It also has multiple phosphorylation sites for different cell signaling kinases, a central coiled-coil region, a C-terminal GAP domain and CALMODULIN binding domain. Mutations in the TSC2 gene are associated with TUBEROUS SCLEROSIS.

**Tree locations:**

Intracellular Signaling Peptides and Proteins D12.644.360.938

D12.776.476.935

Tumor Suppressor Proteins D12.776.624.776.769

### UNESCO

An operating body of the UNITED NATIONS, responsible for coordinating international cooperation in education, science, culture and communication.

AN: CATALOGER: Use NAF entry

**Tree locations:**

United Nations N03.540.514.718.400

## New MeSH Headings for 2019

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

### Urinary Bladder, Underactive

Symptom of underactive detrusor muscle of the URINARY BLADDER that contracts with abnormally reduced strength or duration resulting in an incomplete and/or prolonged bladder emptying.

PI: Urinary Bladder Diseases (1974-2018)

#### Tree locations:

Lower Urinary Tract Symptoms C23.888.942.343.790  
Urinary Bladder Diseases C12.777.829.893  
C13.351.968.829.867

### Vaccinology

Branch of medicine concerned with the development of vaccines to control disease by identifying genetic and other mechanisms and pathways that determine immune responses, and thereby provide new candidate vaccine approaches.

PI: Vaccines (1994-2018)

#### Tree locations:

Medicine H02.403.894

### Valacyclovir

A prodrug of acyclovir that is used in the treatment of HERPES ZOSTER and HERPES SIMPLEX VIRUS INFECTION of the skin and mucous membranes, including GENITAL HERPES.

#### Tree locations:

Acyclovir D03.633.100.759.758.399.454.250.650

### Valganciclovir

A ganciclovir prodrug and antiviral agent that is used to treat CYTOMEGALOVIRUS RETINITIS in patients with AIDS, and for the prevention of CYTOMEGALOVIRUS INFECTIONS in organ transplant recipients who have received an organ from a CMV-positive donor.

#### Tree locations:

Ganciclovir D03.633.100.759.758.399.454.250.300.500

### Vemurafenib

An indole sulfonamide compound and inhibitor of BRAF KINASES that is used for the treatment of unresectable or metastatic MELANOMA.

#### Tree locations:

Indoles D03.633.100.473.936  
Sulfonamides D02.065.884.919  
D02.886.590.700.919

### Ventilation-Perfusion Scan

A two-part radionuclide imaging that measures VENTILATION-PERFUSION RATIO of the lungs often used to investigate PULMONARY EMBOLISM. Image acquisitions may be performed using various combinations of gamma camera, PET and SPECT scanning techniques.

PI: Ventilation-Perfusion Ratio (1963-2018)

#### Tree locations:

Radionuclide Imaging E01.370.350.710.900  
E01.370.384.730.900  
Respiratory Function Tests E01.370.386.700.963

## New MeSH Headings for 2019

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

### **Verteporfin**

A benzoporphyrin derivative that is used in PHOTOCHEMOTHERAPY to treat wet type MACULAR DEGENERATION.

**Tree locations:**

Porphyryns D03.383.129.578.840.500.940  
D03.633.400.909.500.940  
D04.345.783.500.940

### **Vildagliptin**

A pyrrolidine-carbonitrile derivative and potent inhibitor of DIPEPTIDYL PEPTIDASE 4 that is used in the treatment of TYPE 2 DIABETES MELLITUS.

**Tree locations:**

Nitriles D02.626.943  
Pyrrolidines D03.383.773.953

### **Vinorelbine**

A vinca alkaloid related to VINBLASTINE that is used as a first-line treatment for NON-SMALL CELL LUNG CANCER, or for advanced or metastatic BREAST CANCER refractory to treatment with ANTHRACYCLINES.

**Tree locations:**

Vinca Alkaloids D03.132.436.681.827.915  
D03.633.100.473.402.681.827.915

### **Vorinostat**

A hydroxamic acid and anilide derivative that acts as a HISTONE DEACETYLASE inhibitor. It is used in the treatment of CUTANEOUS T-CELL LYMPHOMA and SEZARY SYNDROME.

**Tree locations:**

Anilides D02.065.199.960  
D02.092.146.113.960  
Hydroxamic Acids D02.092.570.394.690  
D02.241.511.372.690

### **Vortioxetine**

A piperazine derivative that acts as a serotonin reuptake inhibitor, as a 5-HT3 receptor antagonist, and 5-HT1A receptor agonist. It is used for the treatment of anxiety and depression.

**Tree locations:**

Piperazines D03.383.606.990

### **Web Archive (Pub Type)**

Collection of preserved web pages.

AN: This heading is used as a Publication Type. Works on Web Archives as a subject are indexed under the main the heading WEB ARCHIVES AS TOPIC. INDEXER: Do not use

**Tree locations:**

Collected Work V02.260.700

## New MeSH Headings for 2019

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

### Web Archives as Topic

Works about collections of preserved web pages.

AN: do not confuse with the Publication Type WEB ARCHIVE

**Tree locations:**

Internet L01.224.230.110.500.875

### Wool Fiber

Filament, thread, or yarn produced from WOOL.

AN: WOOL is also available

PI: Wool (1963-2018)

**Tree locations:**

Textiles J01.637.836.649

### Workforce

The number of people working or available for work or service.

AN: coordinate with specific discipline, occupation, service or program if pertinent; HEALTH WORKFORCE is also available

**Tree locations:**

Organization and Administration N04.452.525

### Wortmannin

An androstadiene metabolite produced by the fungi *PENICILLIUM funiculosum* that inhibits PHOSPHATIDYLINOSITOL-3-KINASES and alloantigen-specific activation of T-LYMPHOCYTES in human tumor cell lines. It is widely used in CELL BIOLOGY research and has broad therapeutic potential.

**Tree locations:**

Androstadienes D04.210.500.054.079.129.891

### Zoledronic Acid

An imidodiphosphonate and inhibitor of BONE RESORPTION that is used for the treatment of malignancy-related HYPERCALCEMIA; OSTEITIS DEFORMANS; and OSTEOPOROSIS.

**Tree locations:**

Diphosphonates D02.705.429.500.942

Imidazoles D03.383.129.308.990

### Zolpidem

An imidazopyridine derivative and short acting GABA-A receptor agonist that is used for the treatment of INSOMNIA.

**Tree locations:**

Pyridines D03.383.725.971



## New MeSH Headings for 2019

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

### **Zonisamide**

A benzisoxazole and sulfonamide derivative that acts as a CALCIUM CHANNEL blocker. It is used primarily as an adjunctive antiepileptic agent for the treatment of PARTIAL SEIZURES, with or without secondary generalization.

#### **Tree locations:**

Isoxazoles D03.383.129.385.825  
Sulfonamides D02.065.884.987  
D02.886.590.700.987