

The use of stems in the selection of International Nonproprietary Names (INN) for pharmaceutical substances

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The use of stems in the selection of International Nonproprietary Names (INN) for pharmaceutical substances

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Preface

WHO'S INN PROGRAMME

WHO has a constitutional responsibility to "develop, establish and promote international standards with respect to biological, pharmaceutical and similar products". This is the basis for many activities within WHO, such as International Nonproprietary Names (INN), WHO Good Manufacturing Practices, the International Pharmacopoeia, the WHO Certification Scheme and many others. The section of the WHO specifically dealing with selection of International Nonproprietary Names for pharmaceutical substances falls under the Department of Essential Drugs and other Medicines.

INN SELECTION PROCEDURE AND CRITERIA

A request for an INN is usually submitted on a form to the World Health Organization. In certain countries, where national nomenclature commissions exist, this is done through the corresponding national nomenclature authority.

Precise information on the chemistry, pharmacological action and use, as well as suggested nonproprietary names, name and address of the manufacturer are to be provided on the form. Each name proposed by the originator of such a request is then examined and a name selected.

All members of the WHO Expert Panel on the International Pharmacopoeia and Pharmaceutical Preparations designated to select nonproprietary names have to agree to the name which is then first published as a proposed INN. During a four-month period, any person can forward comments, or lodge a formal objection to a name, e.g. on grounds of similarity with a trade-name. If no objection is raised the name will be published a second time as recommended INN.

The primary principles for selection are that an INN should be

- distinctive in sound and spelling,
- not too long,
- not liable to confusion with other names in common use.

INNs for substances belonging to a particular group of pharmacologically related substances show their relationship by the use of common stems, which are listed and defined in this document.

In addition to the above rules, certain rules have been established to allow the use of INNs internationally, i.e. in various languages. For example, the letters "h" and "k" should be avoided; "e" should be used instead of "ae" and "oe", "i" instead of "y" and "t", "f" instead of "th" and "ph".

Further information on the selection procedure and general principles in devising INNs may be found in Annex 2 and 3.

THIS DOCUMENT

This document lists common stems for which chemical and/or pharmacological categories have been established. These stems and their definitions have been selected by the INN experts and are for use when selecting new international nonproprietary names for pharmaceutical substances that belong to an established series of related compounds.

The list is not exhaustive in that it might not include all stems used by the INN Committee. It is the nature of the nomenclature process that new, potential stems are constantly being created and that definitions of older stems may need to be modified as new information becomes available.

Examples of nonproprietary names have been selected from Lists 1 - 84 of Proposed International Nonproprietary Names. They were compared with:

Stems listed in article 9 of the "General Principles for Guidance in Devising International Nonproprietary Names for Pharmaceutical Substances", Annex to List 81 of proposed INN and some well-established old or new stems not included in article 9 of the general principles. Details on stems are indicated as follows:

- (x) stems that are included in article 9 of the general principles
- (d) stems deleted from article 9 of the general principles

The reference to TRS 581* indicates that the stem is listed in Annex 3 of the 20th Report of the WHO Expert Committee on Nonproprietary Names for Pharmaceutical Substances.

References to syllables in the British Approved Names (BAN) dictionary and the USP Dictionary of USAN and International Drug Names have also been made wherever applicable. Whenever the BAN or USAN definitions are not identical to the INN definition they are given in brackets under the INN definition.

For each stem, the names have been classified as:

- (a) names in which the preferred stem has been used in accordance with its definition;
- (b) names in which the preferred stem has been used but not in accordance with its definition;
- (c) names which belong to the same group of pharmaceutical substances and in which no preferred stem has been used. (This part of the list is not always complete).

The codes given on the left-hand side under each stem refer to the WHO pharmacological classification used in the WHO Drug Evaluation and Monitoring Programme.

Note for trade-mark officers:

In line with the WHO World Health Assembly resolution (*WHA46.19***) it would be appreciated if trade-marks were not derived from INNs and if INN stems were not used in trade-marks. This practice endangers the principle that INNs are public property; it can frustrate the rational selection of further INNs for related substances, and it will ultimately compromise the safety of patients by promoting confusion in drug nomenclature.

*Nonproprietary names for pharmaceutical substances, Twentieth Report of the WHO Expert Committee (1975)

** WHA resolution on nonproprietary names for pharmaceutical substances (1993)

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ALPHABETICAL LIST OF COMMON STEMS

A

-abine (see -arabine and -citabine)
 -ac
 -acetam (see -racetam)
 -actide
 -adol/-adol-
 -adom
 -afenone
 -afil
 -aj-
 -al
 -aldrate
 -alol (see -olol)
 -alox (see -ox)
 -amivir (see vir)
 -ampanel
 andr
 -anib
 -anide
 -anserin
 -antel
 -apine (see -pine)
 -(ar)abine
 -arit
 -arol
 -arone
 -arotene
 arte-
 -ase
 -ast
 -(a)steride (see -ster-)
 -astine
 -azam (see -azepam)
 -azenil
 -azepam
 -azepide
 -azocine
 -azolam (see -azepam)
 -azoline
 -azone (see -buzone)
 -azosin

B

-bactam
 -bamate
 barb
 -begron
 -benakin (see -kin)
 -bendan (see -dan)
 -bendazole
 -bermin (see -ermin)
 -bersat
 -betasol (see pred)
 bol
 -bradine
 -brate (see -fibrate)
 -bufen
 -butazone (see -buzone)
 -buzone

C

-caine
 -cain-
 calci
 -carbef
 -carnil (see -azenil)
 -castat (see -stat)
 -cavir (see vir)
 cef-
 cell-/cel-
 cell-ate (see cell-/cel-)
 -cellose (see cell-/cel-)
 -cic
 -cidin
 -cillide (see -cillin)
 -cillin
 -cillinam (see -cillin)
 -cilpine (see -pine)
 -cysteine (see -steine)
 -citabine
 -clone
 -cog
 -conazole
 cort
 -coxib
 -crinat
 -crine

-cromil
 -curium (see -ium)
 -cycline

D

-dan
 -dapson
 -decakin (see -kin)
 -dermin (see -ermin)
 -dil
 -dilol (see -dil)
 -dipine
 -dismase (see -ase)
 -distim (see -stim)
 -dodekin (see -kin)
 -dopa
 -dox (see -ox/-alox)
 -dralazine
 -drine
 -dronic acid
 -dutant (see -tant)
 -dyl (see -dil)

E

-ectin
 -elestat (see -stat)
 -elvekin (see -kin)
 -emcinal
 -entan
 (-)eptacog (see -cog)
 erg
 -eridine
 -ermin
 estr
 -etanide (see -anide)
 -ethidine (see -eridine)
 -exakin (see -kin)
 -exine

F

-fenamate (see -fenamic acid)
 -fenamic acid
 -fenin
 -fenine
 -fentanil

-fentine
 -fermin (see -ermin)
 -fiban
 -fibrate
 -filermin (see -ermin)
 -flapon
 -flurane
 -formin
 fos
 -fovir (see vir)
 -fradil
 -frine (see -drine)
 -fungin
 -fylline

G

gab
 gado-
 -gatan
 gest
 -gestr- (see estr)
 -giline
 -gillin
 gli
 -glitazar (see gli)
 -glitazone (see gli)
 -glumide
 -golide
 -gosivir (see vir)
 -gramostim (see -stim)
 -grastim (see -stim)
 -grel-/-grel
 guan-

I

-ibine (see -ribine)
 -icam
 -ifene
 -igetide (see -tide)
 -ilide
 imex
 -imibe
 -imod
 -imus
 -ine
 io-
 iod-/-io-
 -irudin

-isomide
 -ium
 -izine (-yzine)

K

-kacin
 -kalant
 -kalim
 -kef-
 -kin
 -kinra (see -kin)
 -kiren

L

-leukin (see -kin)
 -listat (see -stat)
 -lubant
 -lukast (see -ast)

M

-mab
 -mantadine
 -mantine (see -mantadine)
 -mantone (see -mantadine)
 -mastat (see -stat)
 -meline
 mer-/-mer
 -mer
 -mesine
 -mestane
 -metacin
 -met(h)asone (see pred)
 -micin
 -mifene (see -ifene)
 mito-
 -monam
 -morelin (see -relin)
 -mostim (see -stim)
 -motine
 -moxin
 -mustine
 -mycin

N

nab
 -nakin (see -kin)
 -nakinra (see -kin)
 nal-

-naritide (see -tide)
 -navir (see vir)
 -nermin (see -ermin)
 -nercept
 -nertant (see -tant)
 -netant (see -tant)
 -nicate (see nico-)
 -nicline
 nico-/nic-/ni-
 -nidazole
 -nidine (see -onidine)
 nifur-
 -nil (see -azenil)
 nitro-/nitr-/nit-/ni-/-ni-
 -nixin
 (-)nonacog (see -cog)

O

octakin (see -kin)
 (-)octocog (see -cog)
 -ol
 -olol
 -olone (see pred)
 -onakin (see -kin)
 -one
 -onide
 -onidine
 -onium (see -ium)
 -opamine (see -dopa)
 -orex
 -orph- (see orphan)
 orphan
 -ox/-alox
 -oxacin
 -oxan(e)
 -oxanide (see -anide)
 -oxef (see cef-)
 -oxepin (see -pine)
 -oxetine
 -oxicam (see -icam)
 -oxifene (see -ifene)
 -oxopine (see -pine)

P

-pafant
 -pamide
 -pamil
 -parcin

-parin
 -parinux (see -parin)
 -pendyl (see -dil)
 -penem
 perfl(u)-
 -peridol (see -perone)
 -peridone (see -perone)
 -perone
 -pidem
 -pin(e)
 -piprazole (see -prazole)
 -pirone (see -spirone)
 -pirox (see -ox/-alox)
 -pitant (see -tant)
 -plact
 -planin
 -plase (see -ase)
 -platin
 -plermin (see -ermin)
 -plestim (see -stim and -kin)
 -plon
 -poetin
 -porfin
 -poride
 -pramine
 -prazole
 pred
 -prenaline (see -terol)
 -pressin
 -pride
 -pril
 -prilat (see -pril)
 -prim
 -pristin
 -profen
 prost
 -prostil (see prost)

Q

-quin(e)
 -quinil (see -azenil)

R

-racetam
 -racil
 -relin
 -relix
 -renone

-restat (see -stat)
 retin
 -ribine
 rifa-
 -rinone
 -rizine (see -izine)
 -rozole
 -rubicin

S

sal
 -sartan
 -semide
 -sermin (see -ermin)
 -serod
 -serpine
 -setron
 som-
 -sopine (see -pine)
 -spirone
 -stat/-stat-
 -steine
 -ster-
 -stigmine
 -stim
 sulfa-
 -sulfan

T

-tadine
 -tant
 -tecan
 -tepa
 -tepine (see -pine)
 -teplase (see -ase)
 -termin (see -ermin)
 -terol
 -terone
 -thiouracil (see -racil)
 -tiazem
 -tide
 -tidine
 -tilide (see -ilide)
 -tiline (see -triptyline)
 -tinib
 -tirelin (see -relin)
 -tizide
 -tocin

-toin
 -trakin (see -kin)
 -trexate
 -tricin
 -triptan
 -triptyline
 -troban
 -trodast (see -ast)
 trop

U

-uplase (see -ase)
 -ur (see -uridine)
 -uridine

V

-vaptan
 -vastatin (see -stat)
 -verine
 vin-/-vin-
 vir
 -virsen
 -vos (see fos)
 -vudine (see -uridine)

X

-xaban
 -xanox (see -ox/-alox)

Y

-yzine (see -izine)

Z

-zafone
 -zepine (see -pine)
 -zone (see -buzone)

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ALPHABETICAL LIST OF COMMON STEMS AND THEIR DEFINITION

A

-abine (see -arabine and -citabine)	arabinofuranosyl derivatives; nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives
-ac	anti-inflammatory agents, ibufenac derivatives
-acetam (see -racetam)	amide type nootrope agents, piracetam derivatives
-actide	synthetic polypeptide with a corticotropin-like action
-adol/-adol-	analgesics
-adom	analgesics, tifleuadom derivatives
-afenone	antiarrhythmics, propafenone derivatives
-afil	inhibitors of phosphodiesterase PDE5 with vasodilator action
-aj-	antiarrhythmics, ajmaline derivatives
-al	aldehydes
-aldrate	antacids, aluminium salts
-alol (see -olol)	aromatic ring related to -olols
-alox (see -ox)	antacids, aluminium derivatives
-amivir (see vir)	neuraminidase inhibitors
-ampanel	amino-hydroxymethyl-isoxazole-propionic acid (AMPA) receptor antagonists
andr	steroids, androgens
-anib	angiogenesis inhibitors
-amivir (see vir)	neuraminidase inhibitors
-anide	saluretics
-anserin	serotonin receptor antagonists (mostly 5-HT ₂)
-antel	anthelmintics (undefined group)
-apine (see -pine)	tricyclic compounds
-(ar)abine	arabinofuranosyl derivatives
-arit	antiarthritic substances, acting like clobuzarit and lobenzarit, (mechanism different from anti-inflammatory type substances, e.g. -fenamates or -profens)
-arol	anticoagulants, dicoumarol derivatives
-arone	-
-arotene	arotinoid derivatives
arte-	antimalarial agents, artemisinin related compounds

-ase	enzymes
-ast	antiasthmatic, antiallergics, not acting primarily as antihistaminics
-(a)steride (see -ster-)	androgens/anabolic steroids
-astine	antihistaminics
-azam (see -azepam)	diazepam derivatives
-azenil	benzodiazepine receptor antagonists/agonists (benzodiazepine derivatives)
-azepam	diazepam derivatives
-azepide	cholecystokinin receptor antagonists
-azocine	narcotic antagonists/agonists related to 6,7-benzomorphan
-azolam (see -azepam)	diazepam derivatives
-azoline	antihistaminics or local vasoconstrictors, antazoline derivatives
-azone (see -buzone)	anti-inflammatory analgesics, phenylbutazone derivatives
-azosin	antihypertensive substances, prazosin derivatives

B

-bactam	β -lactamase inhibitors
-bamate	tranquillizers, propanediol and pentanediol derivatives
barb	hypnotics, barbituric acid derivatives
-begron	β_3 -adrenoreceptor agonists
-benakin (see -kin)	interleukin-1 analogues and derivatives
-bendan (see -dan)	cardiac stimulants, pimobendan derivatives
-bendazole	anthelmintics, tiabendazole derivatives
-bermin (see -ermin)	vascular endothelial growth factors
-bersat	anticonvulsants, benzoylamino-benzopyran derivatives
-betasol (see pred)	prednisone and prednisolone derivatives
bol	anabolic steroids
-bradine	bradycardic agents
-brate (see -fibrate)	clofibrate derivatives
-bufen	non-steroidal anti-inflammatory agents, arylbutanoic acid derivatives
-butazone (see -buzone)	anti-inflammatory analgesics, phenylbutazone derivatives
-buzone	anti-inflammatory analgesics, phenylbutazone derivatives

C

-caine	local anaesthetics
-cain-	class I antiarrhythmics, procainamide and lidocaine derivatives
calci	vitamin D analogues/derivatives
-carbef	antibiotics, carbacepham derivatives
-carnil (see -azenil)	benzodiazepine receptor antagonists/agonists (carboline derivatives)
-castat (see -stat)	dopamine-hydroxylase inhibitors
-cavir (see vir)	carbocyclic nucleosides
cef-	antibiotics, cephalosporanic acid derivatives
cell-/cel-	cellulose derivatives
cell-ate (see cell-/cel-)	cellulose ester derivatives for substances containing acidic residues
-cellose (see cell-/cel-)	cellulose ether derivatives
-cic	hepatoprotective substances with a carboxylic acid group
-cidin	naturally occurring antibiotics (undefined group)
-cillide (see -cillin)	antibiotics, 6-aminopenicillanic acid derivatives
-cillin	antibiotics, 6-aminopenicillanic acid derivatives
-cillinam (see -cillin)	antibiotics, 6-aminopenicillanic acid derivatives
-cilpine (see -pine)	tricyclic compounds
-cistine (see -steine)	mucoytics, other than bromhexine derivatives
-citabine	nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives
-clone	hypnotic tranquillizers
-cog	blood coagulation factors
-conazole	systemic antifungal agents, miconazole derivatives
cort	corticosteroids, except prednisolone derivatives
-coxib	selective cyclo-oxygenase inhibitors
-crinat	diuretics, etacrynic acid derivatives
-crine	acridine derivatives
-cromil	antiallergics, cromoglicic acid derivatives
-curium (see -ium)	curare-like substances
-cycline	antibiotics, tetracycline derivatives

D	
-dan	cardiac stimulants, pimobendan derivatives
-dapson	antimycobacterials, diaminodiphenylsulfone derivatives
-decakin (see -kin)	interleukin-10 analogues and derivatives
-dermin (see -ermin)	epidermal growth factors
-dil	vasodilators
-dilol (see -dil)	vasodilators
-dipine	calcium channel blockers, nifedipine derivatives
-dismase (see -ase)	enzymes with superoxide dismutase activity, see -ase item V
-distim (see -stim)	combination of two different types of colony stimulating factors
-dodekin (see -kin)	interleukin-12 analogues and derivatives
-dopa	dopamine receptor agonists, dopamine derivatives, used as antiparkinsonism/prolactin inhibitors
-dox (see -ox/-alox)	antibacterials, quinazoline dioxide derivatives
-dralazine	antihypertensives, hydrazinephthalazine derivatives
-drine	sympathomimetics
-dronic acid	calcium metabolism regulator, pharmaceutical aid
-dutant (see -tant)	neurokinin NK ₂ receptor antagonist
-dyl (see -dil)	vasodilators
E	
-ectin	antiparasitics, ivermectin derivatives
-elestat (see -stat)	elastase inhibitors
-elvekin (see -kin)	interleukin-11 analogues and derivatives
-emcinal	erythromycin derivatives lacking antibiotic activity, motilin agonists
-entan	endothelin receptor antagonists
(-)eptacog (see -cog)	blood coagulation VII
erg	ergot alkaloid derivatives
-eridine	analgesics, pethidine derivatives
-ermin	growth factors
estr	estrogens
-etanide (see -anide)	diuretics, piretanide derivatives
-ethidine (see -eridine)	analgesics, pethidine derivatives

-exakin (see -kin)	interleukin-6 analogues and derivatives
-exine	mucolytic, bromhexine derivatives
F	
-fenamate (see -fenamic acid)	"fenamic acid" derivatives
-fenamic acid	anti-inflammatory, anthranilic acid derivatives
-fenin	diagnostic aids; (phenylcarbamoyl)methyl iminodiacetic acid derivatives
-fenine	analgesics, glafenine derivatives (subgroup of fenamic acid group)
-fentanil	narcotic analgesics, fentanyl derivatives
-fentrine	inhibitors of phosphodiesterases
-fermin (see -ermin)	fibrinoblast growth factors
-fiban	fibrinogen receptor antagonists (glycoprotein IIb/IIIa receptor antagonists)
-fibrate	clofibrate derivatives
-filermin (see -ermin)	leukemia-inhibiting factor
-flapon	5-lipoxygenase-activating protein (FLAP) inhibitor
-flurane	halogenated compounds used as general inhalation anaesthetics
-formin	antihyperglycaemics, phenformin derivatives
fos	insecticides, anthelmintics, pesticides etc., phosphorous derivatives
-fovir (see vir)	phosphonic acid derivatives
-fradil	calcium channel blockers acting as vasodilators
-frine (see -drine)	sympathomimetic, phenethyl derivatives
-fungin	antifungal antibiotics
-fylline	<i>N</i> -methylated xanthine derivatives
G	
gab	gabamimetic agents
gado-	diagnostic agents, gadolinium derivatives
-gatan	thrombin inhibitor, antithrombotic agent
gest	steroids, progestogens
-gestr- (see estr)	estrogens
-giline	MAO-inhibitors type B
-gillin	antibiotics produced by <i>Aspergillus strain</i>

gli	antihyperglycaemics
-glitazar (see gli)	peroxisome proliferator activating receptor (PPAR) agonists
-glitazone (see gli)	peroxisome proliferator activating receptor (PPAR) agonists, thiazolidinedione derivatives
-glumide	CCK antagonists, antiulcer, anxiolytic agent
-golide	dopamine receptor agonists, ergoline derivatives
-gosivir (see vir)	glucoside inhibitors
-gramostim (see -stim)	granulocyte macrophage colony stimulating factor (GM-CSF) types substances
-grastim (see -stim)	granulocyte colony stimulating factor (G-CSF) type substances
-grel-/-grel	platelet aggregation inhibitors
guan-	antihypertensives, guanidine derivatives
I	
-ibine (see -ribine)	ribofuranyl-derivatives of the “pyrazofurin” type
-icam	anti-inflammatory, isoxicam derivatives
-ifene	antiestrogens, clomifene and tamoxifen derivatives
-igetide (see -tide)	peptides and glycopeptides
-ilide	class III antiarrhythmics, sematilide derivatives
imex	immunostimulants
-imibe	antihyperlipidaemics, acyl CoA: cholesterol acyltransferase (ACAT) inhibitors
-imod	immunomodulators, both stimulant/suppressive and stimulant
-imus	immunosuppressants (other than antineoplastics)
-ine	alkaloids and organic bases
-inostat (see stat)	histone deacetylase inhibitors
io-	iodine-containing contrast media
iod-/-io-	iodine-containing compounds other than contrast media
-irudin	hirudin derivatives
-isomide	antiarrhythmics, disopyramide derivatives
-ium	quaternary ammonium compounds
-izine (-yzine)	diphenylmethyl piperazine derivatives

K

-kacin	antibiotics, kanamycin and bekanamycin derivatives (obtained from <i>Streptomyces kanamyceticus</i>)
-kalant	potassium channel blockers
-kalim	potassium channel activators, antihypertensive
-kef-	enkephalin agonists
-kin	interleukin type substances
-kinra (see -kin)	interleukin receptor antagonists
-kiren	renin inhibitors

L

-leukin (see -kin)	interleukin-2 analogues and derivatives
-listat (see -stat)	pancreatic lipase inhibitors
-lubant	leukotriene B ₄ receptor antagonist
-lukast (see -ast)	leukotriene receptor antagonists

M

-mab	monoclonal antibodies
-mantadine	adamantane derivatives
-mantine (see -mantadine)	adamantane derivatives
-mantone (see -mantadine)	adamantane derivatives
-mastat (see -stat)	matrix metalloproteinase inhibitors
-meline	cholinergic agents (muscarine receptor agonists/partial antagonists used in the treatment of Alzheimer's disease)
mer-/-mer	mercury-containing drugs, antimicrobial or diuretic (deleted from General Principles in List 28 prop. INN)
-mer	polymers
-mesine	sigma receptor ligands
-mestane	aromatase inhibitors
-metacin	anti-inflammatory, indometacin derivatives
-met(h)asone (see pred)	prednisone and prednisolone derivatives
-micin	antibiotics obtained from various <i>Micromonospor</i>
-mifene (see -ifene)	antiestrogens, clomifene and tamoxifen derivatives
mito-	antineoplastics, nucleotoxic agents (deleted from General Principles in List 24 prop. INN)

-monam	monobactam antibiotics
-morelin (see -relin)	growth hormone release-stimulating peptides
-mostim (see -stim)	macrophage stimulating factors (M-CSF) type substances
-motine	antivirals, quinoline derivatives
-moxin	monoamine oxidase inhibitors, hydrazine derivatives
-mustine	antineoplastic, alkylating agents, (β -chloroethyl)amine derivatives
-mycin	antibiotics, produced by <u>Streptomyces</u> strains (see also -kacin)

N

nab	cannabinol derivatives
-nakin (see -kin)	interleukin-1 analogues and derivatives
-nakinra (see -kin)	interleukin-1 receptor antagonists
nal-	narcotic antagonists/agonists related to normorphine
-naritide (see -tide)	peptides and glycopeptides
-navir (see vir)	HIV protease inhibitors
-nermin (see -ermin)	tumour necrosis factor
-nercept	tumour necrosis factor antagonist
-nertant (see -tant)	neurotensin antagonist
-netant (see -tant)	neurokinin NK ₃ receptor antagonist
-nicate (see nico-)	antihypercholesterolaemic and/or vasodilating nicotinic acid esters
-nicline	nicotinic acetylcholine receptor agonists
nico-/nic-/ni-	nicotinic acid or nicotinoyl alcohol derivatives
-nidazole	antiprotozoals and radiosensitizers, metronidazole derivatives
-nidine (see -onidine)	antihypertensives, clonidine derivatives
nifur-	5-nitrofurans derivatives
-nil (see -azenil)	benzodiazepine receptor antagonists/agonists (benzodiazepine derivatives)
nitro-/nitr-/nit-/ni-/ni-	NO ₂ - derivatives
-nixin	anti-inflammatory, anilonicotinic acid derivatives
(-)nonacog (see -cog)	blood factor IX

O

octakin (see -kin)	interleukin-8 analogues and derivatives
(-)octocog (see -cog)	blood factor VIII

-ol	for alcohols and phenols (deleted from General Principles in 14th Report)
-olol	β -adrenoreceptor antagonists
-olone (see pred)	steroids other than prednisolone derivatives
-onakin (see -kin)	interleukin-1 analogues and derivatives
-one	ketones
-onide	steroids for topical use, acetal derivatives
-onidine	antihypertensives, clonidine derivatives
-onium (see -ium)	quaternary ammonium compounds
-opamine (see -dopa)	dopaminergic agents dopamine derivatives used as cardiac stimulant/antihypertensives/diuretics
-orex	anorexics
-orph- (see orphan)	narcotic antagonists/agonists, morphinan derivatives
orphan	narcotic antagonists/agonists, morphinan derivatives
-ox/-alox	antacids, aluminium derivatives
-oxacin	antibacterials, nalidixic acid derivatives
-oxan(e)	benzodioxane derivatives
-oxanide (see -anide)	antiparasitics, salicylanilides and analogues
-oxef (see cef-)	antibiotics, oxacefalosporanic acid derivatives
-oxepin (see -pine)	tricyclic compounds
-oxetine	antidepressants, fluoxetine derivatives
-oxicam (see -icam)	anti-inflammatory, isoxicam derivatives
-oxifene (see -ifene)	antiestrogens, clomifene and tamoxifen derivatives
-oxopine (see -pine)	tricyclic compounds

P

-pafant	platelet-activating factor antagonists
-pamide	diuretics, sulfamoylbenzoic acid derivatives (could be sulfamoylbenzamide)
-pamil	coronary vasodilators, verapamil derivatives
-parcin	for glycopeptide antibiotics
-parin	heparin derivatives including low molecular mass heparins
-parinux (see -parin)	synthetic heparinoids
-pendyl (see -dil)	vasodilators
-penem	analogues of penicillanic acid antibiotics modified in the five-membered ring

perfl(u)-	perfluorinated compounds used as blood substitutes and/or diagnostic agents
-peridol (see -perone)	antipsychotics, haloperidol derivatives
-peridone (see -perone)	antipsychotics, risperidone derivatives
-perone	tranquillizers, neuroleptics, 4'-fluoro-4-piperidinobutyrophenone derivatives
-pidem	hypnotics/sedatives, zolpidem derivatives
-pin(e)	tricyclic compounds
-piprazole (see -prazole)	psychotropics, phenylpiperazine derivatives
-pirone (see -spirone)	anxiolytics, buspirone derivatives
-pirox (see -ox/-alox)	antimycotic pyridone derivatives
-pitant (see -tant)	neurokinin NK ₁ (substance P) receptor antagonist
-plact	platelet factor 4 analogues and derivatives
-planin	antibacterials (<i>Actinoplanes</i> strains)
-plase (see -ase)	enzymes
-platin	antineoplastic agents, platinum derivatives
-plermin (see -ermin)	platelet-derived growth factor
-plestim (see -stim and -kin)	interleukin-3 analogues and derivatives
-plon	pyrazolo[.]pyrimidine derivatives, used as anxiolytics, sedatives, hypnotics
-poetin	erythropoietin type blood factors
-porfin	benzoporphyrin derivatives
-poride	Na ⁺ /H ⁺ antiport inhibitor
-pramine	substances of the imipramine group
-prazole	antiulcer, benzimidazole derivatives
pred	prednisone and prednisolone derivatives
-prenaline (see -terol)	bronchodilators, phenethylamine derivatives
-pressin	vasoconstrictors, vasopressin derivatives
-pride	sulpiride derivatives
-pril	angiotensin-converting enzyme inhibitors
-prilat (see -pril)	angiotensin-converting enzyme inhibitors
-prim	antibacterials, trimethoprim derivatives
-pristin	antibacterials, pristinamycin derivatives
-profen	anti-inflammatory agents, ibuprofen derivatives
prost	prostaglandins

-prostil (see prost)

prostaglandins, anti-ulcer

Q

-quin(e)

quinoline derivatives (deleted from General Principles in List 28 prop. INN)

-quinil (see -azenil)

benzodiazepine receptor agonists, also partial or inverse (quinoline derivatives)

R

-racetam

amide type nootrope agents, piracetam derivatives

-racil

uracil type antineoplastics

-relin

prehormones or hormone-release stimulating peptides

-relix

hormone-release inhibiting peptides

-renone

aldosterone antagonists, spironolactone derivatives

-restat (see -stat)

aldose reductase inhibitors

retin

retinol derivatives

-ribine

ribofuranyl-derivatives of the "pyrazofurin" type

rifa-

antibiotics, rifamycin derivatives

-rinone

cardiac stimulants, amrinone derivatives

-rizine (see -izine)

antihistaminics/cerebral (or peripheral) vasodilators

-rozole

aromatase inhibitors, imidazole-triazole derivatives

-rubicin

antineoplastic antibiotics, daunorubicin derivatives

S

sal

salicylic acid derivatives

-sartan

angiotensin II receptor antagonists, antihypertensive (non-peptidic)

-semide

diuretics, furosemide derivatives

-sermin (see -ermin)

insulin-like growth factors

-serod

serotonin receptor antagonists

-serpine

derivatives of *Rauwolfia* alkaloids

-setron

serotonin receptor antagonists (5-HT₃) not fitting into other established groups of serotonin receptor antagonists

som-

growth hormone derivatives

-sopine (see -pine)

tricyclic compounds

-spirone

anxiolytics, buspirone derivatives

-stat/-stat-	enzyme inhibitors
-steine	mucolytics, other than bromhexine derivatives
-ster-	androgens/anabolic steroids
-stigmine	acetylcholinesterase inhibitors
-stim	colony stimulating factors
sulfa-	anti-infectives, sulfonamides
-sulfan	antineoplastic, alkylating agents, methanesulfonates

T

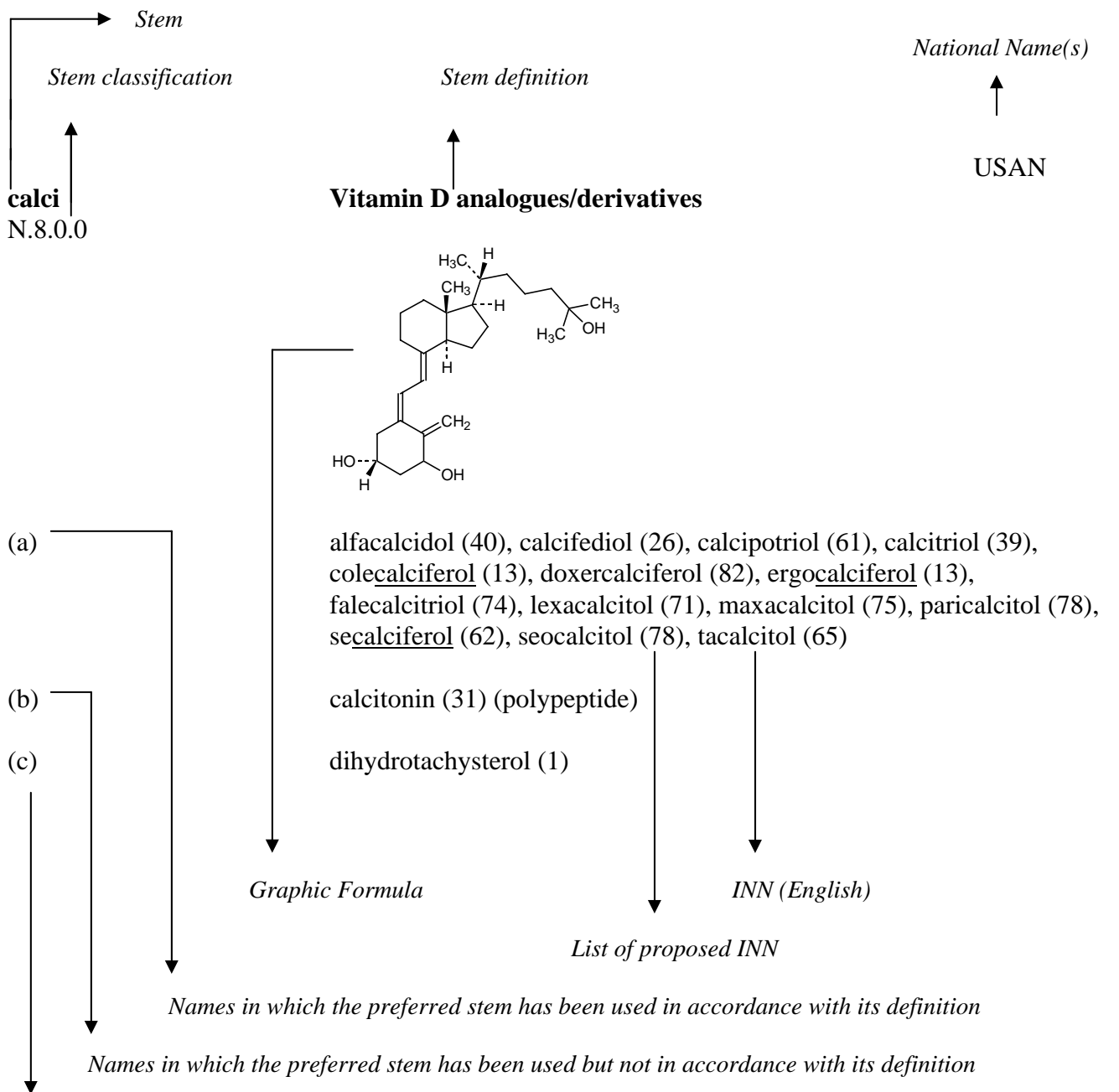
-tadine	tricyclic histamine-H ₁ receptor antagonists, tricyclic compounds
-tant	neurokinin (tachykinin) receptor antagonists
-tecan	antineoplastics, topoisomerase I inhibitors
-tepa	antineoplastics, thiotepa derivatives
-tepine (see -pine)	tricyclic compounds
-teplase (see -ase)	tissue type plasminogen activators, see -ase item VI
-termin (see -ermin)	transforming growth factor
-terol	bronchodilators, phenethylamine derivatives
-terone	antiandrogens
-thiouracil (see -racil)	uracil derivatives used as thyroid antagonists
-tiazem	calcium channel blockers, diltiazem derivatives
-tide	peptides and glycopeptides (for special groups of peptides see -actide, -pressin, -relin, -tocin)
-tidine	histamine-H ₂ -receptor antagonists, cimetidine derivatives
-tilide (see -ilide)	class III antiarrhythmics, sematilide derivatives
-tiline (see -triptyline)	antidepressants, dibenzo[<u>a</u> , <u>d</u>]cycloheptane or cycloheptene derivatives
-tinib	tyrosine kinase inhibitors
-tirelin (see -relin)	thyrotropin releasing hormone analogues
-tizide	diuretics, chlorothiazide derivatives
-tocin	oxytocin derivatives
-toin	antiepileptics, hydantoin derivatives
-trakin (see -kin)	interleukin-4 analogues and derivatives
-trexate	folic acid analogues
-tricin	antibiotics, polyene derivatives
-triptan	serotonin (5HT ₁) receptor agonists, sumatriptan derivatives

-triptyline	antidepressants, dibenzo[<u>a,d</u>]cycloheptane or cycloheptene derivatives
-troban	thromboxane A ₂ -receptor antagonists; antithrombotic agents
-trodast (see -ast)	thromboxane A ₂ -receptor antagonists, antiasthmatics
trop	atropine derivatives
U	
-uplase (see -ase)	urokinase type plasminogen activator, see -ase item VII
-ur (see -uridine)	uridine derivatives used as antiviral agents and as antineoplastics
-uridine	uridine derivatives used as antiviral agents and as antineoplastics
V	
-vaptan	vasopressin receptor antagonists
-vastatin (see -stat)	antihyperlipidaemic substances, HMG CoA reductase inhibitors
-verine	spasmolytics with a papaverine-like action
vin-/-vin-	vinca alkaloids
vir	antivirals (undefined group)
-virsen	antisense oligonucleotides
-vos (see fos)	insecticides, anthelmintics, pesticides etc., phosphorus derivatives
-vudine (see -uridine)	uridine derivatives used as antiviral agents and as antineoplastics
X	
-xaban	blood coagulation factor X _A inhibitors, antithrombotics
-xanox (see -ox/-alox)	anti-allergics, tixanox group
Y	
-yzine (see -izine)	diphenylmethyl piperazine derivatives
Z	
-zafone	alozafone derivatives
-zepine (see -pine)	tricyclic compounds
-zone (see -buzone)	anti-inflammatory analgesics, phenylbutazone derivatives

Acknowledgements

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Layout of information



Names which belong to the same group of pharmaceutical substances and in which no preferred stem has been used (this part of the list is not always complete)

- (x) stems that are included in article 9 of the general principles
- (d) stems deleted from article 9 of the general principles

Pharmacological classification with corresponding examples of stems and their definitions

A000	CNS DEPRESSANTS		
A100	General anaesthetics		
A110	General anaesthetics, volatile	<i>-flurane</i>	general inhalation anaesthetics, halogenated alkane derivatives
A120	General anaesthetics, other		
A200	Hypnotics - sedatives		
A210	Barbiturates	<i>barb</i>	hypnotics, barbituric acid derivatives
A220	Hypnotic sedatives, other	<i>-clone</i>	hypnotic tranquillizers
A220		<i>-plon</i>	pyrazolo[.]pyrimidine derivatives, used as anxiolytics, sedatives, hypnotics
A230	Monoureids, hypnotic sedatives		
A240	Chloral derivatives, hypnotic sedatives		
A300	Centrally acting voluntary muscle tone modifying drugs		
A310	Anticonvulsants	<i>-bersat</i>	anticonvulsants, benzoylamino-benzpyran derivatives
A311	Hydantoins, anticonvulsants	<i>-toin</i>	antiepileptics, hydantoin derivatives
A312	Acetylureas, anticonvulsants		
A313	Oxazolidinediones, anticonvulsants		
A314	Succinimides, anticonvulsants		
A315	Barbiturates, anticonvulsants		
A316	Anticonvulsants, other		
A320	Central anticholinergics		
A330	Centrally acting voluntary-muscle relaxants		

A400	Analgesics		
A410	Narcotic analgesics	<i>-adol</i> or <i>-adol-</i>	analgesics
A410		<i>-azocine</i>	narcotic antagonists/agonists related to 6,7-benzomorphan
A410		<i>-eridine</i>	analgesics, pethidine derivatives
A410		<i>-ethidine</i>	see <i>-eridine</i>
A410		<i>-fentanil</i>	narcotic analgesics, fentanil derivatives
A410		<i>nal-</i>	narcotic antagonists/agonists related to normorphine
A410		<i>orphan</i>	narcotic antagonists/agonists, morphinan derivatives; <i>-orphine</i> , <i>-orphinol</i> , <i>-orphone</i>
A420	Analgesics - Antipyretics	<i>-ac</i>	anti-inflammatory agents, ibufenac derivatives
A420		<i>-adol</i> or <i>-adol-</i>	analgesics
A420		<i>-arit</i>	antiarthritic substances, acting like clobuzarit and lobenzarit (mechanism different from anti-inflammatory type substances, e.g. <i>-fenamates</i> or <i>-profens</i>)
A420		<i>-bufen</i>	non-steroidal anti-inflammatory agents, <i>arylbutanoic acid</i> derivatives
A420		<i>-butazone</i>	<i>-buzone</i> : anti-inflammatory analgesics, phenylbutazone derivatives
A420		<i>-buzone</i>	anti-inflammatory analgesics, phenylbutazone derivatives
A420		<i>-coxib</i>	selective cyclo-oxygenase inhibitors
A420		<i>-fenamate</i>	" <i>-fenamic acid</i> " derivatives
A420		<i>-fenamic acid</i>	anti-inflammatory, anthranilic acid derivatives
A420		<i>-icam</i>	anti-inflammatory, isoxicam derivatives

A420		<i>-metacin</i>	anti-inflammatory, indometacin derivatives
A420		<i>-nixin</i>	anti-inflammatory, anilonicotinic acid derivatives
A420		<i>-profen</i>	anti-inflammatory agents, ibuprofen derivatives
A430	Analgesics, other	<i>-adom</i>	analgesics, tipluadom derivatives
A430		<i>-fenine, phenine</i>	analgesics, glafenine derivatives - (subgroup of fenamic acid group)
A440	Central antiemetics		
A500	Antivertigo drugs		
B000	CNS STIMULANTS	<i>-ampanel</i>	amino-hydroxymethyl-isoxazole-propionic acid (AMPA) receptor antagonists
B100	Analeptics	<i>-fylline</i>	<i>N</i> -methylated xanthine derivatives
B100		<i>-racetam</i>	amide type nootrope agents, piracetam derivatives
B100		<i>-vin-</i> (and <i>-vin-</i>)	vinca alkaloids
B200	Opioid receptor antagonists	<i>-nal-</i>	narcotic antagonists/agonists related to normorphine
B200		<i>orphan</i>	narcotic antagonists/agonists, morphinan derivatives
B300	Benzodiazepine receptor antagonists		
C000	PSYCHOPHARMACOLOGICS	<i>-piprazole</i>	psychotropics, phenylpiperazine derivatives (see also <i>-prazole</i>)
C000		<i>-racetam</i>	amide type nootrope agents, piracetam derivatives
C100	Anxiolytic sedatives	<i>-azenil</i>	benzodiazepine receptor antagonists/agonists (benzodiazepine derivatives)
C100		<i>-azepam</i>	diazepam derivatives

C100		<i>-bamate</i>	tranquillizers, propanediol and pentanediol derivatives
C100		<i>-carnil</i>	benzodiazepine receptor antagonists/agonists (carboline derivatives)
C100		<i>-peridone</i>	see <i>-perone</i> : antipsychotics, risperidone derivatives
C100		<i>-perone</i>	tranquillizers, neuroleptics, 4'-fluoro-4-piperidino-butyrophenone derivatives
C100		<i>-pidem</i>	hypnotics/sedatives, zolpidem derivatives
C100		<i>-plon</i>	pyrazolo[.]pyrimidine derivatives, used as anxiolytics, sedatives, hypnotics
C100		<i>-pride</i>	sulpiride derivatives
C100		<i>-quinil</i>	benzodiazepine receptor agonists also partial or inverse (quinoline derivatives), see <i>-azenil</i>
C100		<i>-spirone</i>	anxiolytics, buspirone derivatives
C100		<i>-zafone</i>	alozafone derivatives
C200	Antipsychotics (neuroleptics)	<i>-perone</i>	tranquillizers, neuroleptics, 4'-fluoro-4-piperidinobutyrophenone derivatives; <i>-peridol</i> : antipsychotics, haloperidol derivatives; <i>-peridone</i> : antipsychotics, risperidone derivatives
C210	Brain amine depleters		
C220	Central adrenoreceptor antagonists		
C300	Antidepressants	<i>-oxetine</i>	antidepressants, fluoxetine derivatives
C310	MAO inhibitors	<i>-giline</i>	MAO-inhibitors type B

C310		<i>-moxin</i>	monoamine oxidase inhibitors, hydrazine derivatives* <i>*not part of definition</i>
C320	Tricyclic antidepressants	<i>-pin(e)</i>	tricyclic compounds; <i>dipine</i> : see <i>-zepine</i> : antidepressant/neuroleptic; C.0.0.0 <i>-apine</i> : psychoactive; A.3.1.0 <i>cilpine</i> : antiepileptic; <i>-oxepin, -oxopine, -sopine, -tepines</i>
C320		<i>-pramine</i>	substances of the imipramine group
C320		<i>-triptyline</i>	antidepressants, dibenzo[a,d]cycloheptane or cycloheptene derivatives
C330	Tetracyclic antidepressants		
C340	Bicyclic antidepressants		
C400	Indirect releasers of catecholamines		
C500	Psychodysleptics (hallucinogens)		
C600	CNS metabolites		
C700	Serotonin receptor antagonists	<i>-anserin</i>	serotonin receptor antagonists (mostly 5-HT ₂)
C700		<i>erg</i>	ergot alkaloid derivatives
C700		<i>-setron</i>	serotonin receptor antagonists (5-HT ₃) not fitting into other established groups of serotonin receptor antagonists, see <i>-anserin</i>
D000	PERIPHERAL NERVOUS SYSTEM DRUGS		
D100	Local anaesthetics	<i>-caine</i>	local anaesthetics
E000	DRUGS ACTING AT SYNAPTIC AND NEUROEFFECTOR JUNCTIONAL SITES	<i>gab</i>	gabamimetic agents
E100	Cholinergic agents	<i>-meline</i>	cholinergic agents, arecoline derivatives

E110	Cholinergic receptor agonists	<i>-dopa</i>	dopamine receptor agonists, dopamine derivatives, used as antiparkinsonism/prolactin inhibitors
E110		<i>-golide</i>	dopamine receptor agonists, ergoline derivatives
E111	Muscarinic receptor agonists		
E112	Nicotinic receptor agonists	<i>-nicline</i>	nicotinic acetylcholine receptor agonists
E120	Anticholinesterase agents	<i>-stigmine</i>	anticholinesterases (deleted from General Principles in List 24 prop. INN)
E200	Cholinergic antagonists	<i>trop</i>	atropine derivatives
E210	Peripheral cholinergic antagonists		
E220	Ganglionic antagonists		
E300	Neuromuscular blocking agents	<i>-curium</i>	curare-like substance; see <i>-ium</i>
E300		<i>-ium</i>	quaternary ammonium compounds; <i>-curium</i> : curare-like substances; <i>-onium</i>
E400	Adrenergic agents	<i>-azoline</i>	antihistaminics or local vasoconstrictors, antazoline derivatives
E400		<i>-drine</i>	sympathomimetics; <i>-frine</i> : sympathomimetic, phenethyl derivatives
E400		<i>-frine</i>	sympathomimetic, phenethyl derivatives
E400		<i>-terol</i>	bronchodilators, phenethylamine derivatives [previously <i>-prenaline</i> or <i>-terenol</i>]
E410	Beta adrenoreceptor agonists		
E420	Alpha adrenoreceptor agonists		
E500	Adrenoreceptor antagonists		

E510	Alpha adrenoreceptor antagonists	<i>-oxan(e)</i>	benzodioxane derivatives (USAN: alpha-adrenoreceptor antagonists; benzodioxane derivatives)
E520	Beta adrenoreceptor antagonists	<i>-alol</i>	aromatic ring -CHOH-CH ₂ -NH-R related to -olols
E520		<i>-olol</i>	beta-adrenoreceptor antagonists; <i>-alol</i> : aromatic ring -CH-CH ₂ -NH-R related to -olols (USAN: combined alpha and beta blockers)
E530	Catecholamines false transmitters		
E540	Adrenergic neurone blocking agents	<i>-serpine</i>	derivatives of Rauwolfia & alkaloids
E600	Stimulant cathartics		
F000	AGENTS ACTING ON SMOOTH MUSCLES		
F100	Spasmolytics, general	<i>-verine</i>	spasmolytics with a papaverine-like action
F200	Vasodilators	<i>-afil</i>	inhibitors of PDE5 with vasodilator action
F200		<i>-dil</i>	vasodilators
F200		<i>-entan</i>	endothelin receptor antagonists
F210	Coronary vasodilators, also calcium channel blockers	<i>-dipine</i>	calcium channel blockers, nifedipine derivatives
F210		<i>-fradil</i>	calcium channel blockers acting as vasodilators
F210		<i>-pamil</i>	coronary vasodilators, verapamil derivatives
F210		<i>-tiazem</i>	calcium channel blockers, diltiazem derivatives
F220	Peripheral vasodilators	<i>-nicate</i>	antihypercholesterolaemic and/or vasodilating nicotinic acid esters
F300	Smooth muscle stimulants		
F310	Vasoconstrictor agents		

F400	Agents acting on the uterus	<i>erg</i>	ergot alkaloid derivatives
G000	HISTAMINE AND ANTIHISTAMINICS		
G100	Histamine and histamine-like drugs		
G200	Antihistaminics	<i>-astine</i>	antihistaminics
G200		<i>-tidine</i>	histamine-H ₂ -receptor antagonists, cimetidine derivatives
G210	Histamine H₁-receptor antagonists	<i>-tadine</i>	tricyclic histamine-H ₁ receptor antagonists, tricyclic compounds
G220	Histamine H₂-receptor antagonists		
G230	Histamine H₃-receptor antagonists		
G300	Histamine metabolism agents		
H000	CARDIOVASCULAR AGENTS	<i>-bradine</i>	bradycardic agents
H000		<i>-vaptan</i>	vasopressin receptor antagonists
H100	Cardiac glycosides and drugs with similar action	<i>-dan</i>	cardiac stimulants, pimobendan derivatives
H100		<i>-rinone</i>	cardiac stimulants, amrinone derivatives
H200	Agents influencing heart muscle excitability and conductivity	<i>-afenone</i>	antiarrhythmics, propafenone derivatives
H200		<i>-aj-</i>	antiarrhythmics, ajmaline derivatives
H200		<i>-cain-</i>	Class I antiarrhythmics, procainamide and lidocaine derivatives (antifibrillants with local anaesthetic activity)
H200		<i>-ilide</i>	Class III antiarrhythmics, sematilide derivatives
H200		<i>-isomide</i>	antiarrhythmics, disopyramide derivatives
H200		<i>-kalant</i>	potassium channel blockers

H300	Antihypertensives	<i>-azosin</i>	antihypertensive substances, prazosin derivatives
H300		<i>-dralazine</i>	antihypertensives, hydrazinephthalazine derivatives
H300		<i>guan-</i>	antihypertensives, guanidine derivatives
H300		<i>-kalim</i>	potassium channel activators, antihypertensive
H300		<i>-kiren</i>	renin inhibitors
H300		<i>-(o)nidine</i>	antihypertensives, clonidine derivatives
H300		<i>-pril(at)</i>	angiotensin-converting enzyme inhibitors
H300		<i>-sartan</i>	angiotensin II receptor antagonists, antihypertensive (non-peptidic)
H400	Antihyperlipidaemic drugs	<i>-fibrate</i>	clofibrate derivatives (USAN: clofibrate type compounds)
H400		<i>-nicate</i>	antihypercholesterolaemic and/or vasodilating nicotinic acid esters
H400		<i>-vastatin</i>	see <i>-stat</i> ; antilipidemic substances, HMG CoA reductase inhibitors
H500	Antivaricose drugs		
H510	Sclerosing drugs		
H600	Capillary-active drugs, haemostyptics		
H700	Calcium channel blockers		
H800	Agents influencing the renin-angiotensin system		
H810	Angiotensin converting enzyme inhibitors		
H820	Angiotensin receptor antagonists		

I000	BLOOD AND AGENTS ACTING ON THE HAEMOPOIETIC SYSTEM (EXCL. CYTOSTATICS)		
I100	Antianaemic agents		
I110	Iron preparations		
I120	Haematinics, other (Vit. B-12, folic acid, etc.)		
I130	Miscellaneous antianaemic agents		
I200	Agents influencing blood coagulation	<i>-cog</i>	<i>(-)eptacog blood coagulation VII, (-)octocog blood factor VIII, (-)nonacog blood factor IX</i>
I200		<i>-fiban</i>	fibrinogen receptor antagonists (glycoprotein IIb/IIIa receptor antagonists)
I200		<i>-gatran</i>	thrombin inhibitor, antithrombotic agents
I200		<i>-parin</i>	heparin derivatives including low molecular mass heparins
I210	Anticoagulants	<i>-arol</i>	anticoagulants, dicoumarol derivatives
I210		<i>-grel-</i> or <i>-grel</i>	platelet aggregation inhibitors
I210		<i>-irudin</i>	hirudin derivatives
I210		<i>-pafant</i>	platelet-activating factor antagonists
I210		<i>-troban</i>	thromboxane A ₂ -receptor antagonists; antithrombotic agents
I220	Prothrombin inhibitors		
I230	Prothrombin synthesis inhibitors		
I240	Anticoagulant inhibitors		
I250	Agents affecting fibrinolysis		
I260	Coagulation promoting agents		

I261	Blood clotting factors		
I300	Blood proteins and their fractions	<i>-poetin</i>	erythropoietin type blood factors
I310	Blood substitutes (macromolecular)		
I400	Platelet-function regulators		
I500	Colony stimulating factors	<i>-stim</i>	colony stimulating factors: <i>-grastim</i> : granulocyte colony stimulatory factor (G-CSF) type substances; <i>-gramostim</i> : granulocyte macrophage colony stimulating factor (GM-CSF) type substances; <i>-mostim</i> : macrophage stimulating factors (M-CSF) type substances; <i>-plestim</i>
I510	Granulocyte stimulating factors	<i>-grastim</i>	see <i>-stim</i>
I520	Macrophage stimulating factor	<i>-mostim</i>	macrophage stimulating factors (M-CSF) type substances; see <i>-stim</i>
J000	AGENTS INFLUENCING THE GASTROINTESTINAL TRACT	<i>-emcinal</i>	erythromycin derivatives lacking antibiotic activity, motilin agonists
J000		<i>-prazole</i>	antiulcer, benzimidazole derivatives
J000		<i>-pride</i>	sulpiride derivatives
J000		<i>-serod</i>	serotonin receptor antagonists
J100	Digestives	<i>-azepide</i>	cholecystokinin receptor antagonist
J110	Stomachics		
J120	Choleretics (and hepatoprotective agents)	<i>-cic</i>	hepatoprotective substances with a carboxylic acid group
J130	Digestive enzymes		
J200	Emetics		
J300	Hepato-protective agents		
J400	Gastro-intestinal anti-infectives (see S000)		

J500	Antidiarrhoeals		
K000	AGENTS INFLUENCING THE RESPIRATORY TRACT	<i>-ast</i>	antiasthmatic, antiallergics, not acting primarily as antihistaminics; <i>-lukast</i> : leukotriene receptor antagonist; <i>-trodast</i> : thromboxane A2 receptor antagonists, antiasthmatics
K000		<i>-cromil</i>	antiallergics, cromoglicic acid derivatives
K000		<i>-exine</i>	mucolytic, bromhexine derivatives
K000		<i>-fentrine</i>	inhibitors of phosphodiesterases
K000		<i>-lukast</i>	leukotriene receptor antagonists, see <i>-ast</i>
K000		<i>-steine</i>	mucolytics, other than bromhexine derivatives
K000		<i>-trodast</i>	see <i>-ast</i>
K000		<i>-xanox</i>	antiallergic respiratory tract drugs, xanoxic acid derivatives
K100	Antitussives		
K110	Antitussives - central		
K120	Antitussives - peripheral		
K200	Expectorants		
L000	ANTINEOPLASTICS	<i>-anib</i>	angiogenesis inhibitors
L000		<i>-(ar)abine</i>	arabinofuranosyl derivatives
L000		<i>-mestane</i>	aromatase inhibitors
L000		<i>mito-</i>	antineoplastics, nucleotoxic agents (deleted from General Principles in List 24 prop. INN)
L000		<i>-platin</i>	antineoplastic agents, platinum derivatives
L000		<i>-racil</i>	uracil type antineoplastics

L000		<i>-ribine</i>	ribofuranil-derivatives of the "pyrazofurin" type
L000		<i>-rozole</i>	aromatase inhibitors, imidazole-triazole derivatives
L000		<i>-tecan</i>	antineoplastics, topoisomerase I inhibitors
L000		<i>-tinib</i>	tyrosine kinase inhibitors
L000		<i>-thiouracil</i>	uracil derivatives used as thyroid antagonists
L100	Immunosuppressants		
L200	Alkylating agents	<i>-mustine</i>	antineoplastic, alkylating agents, (beta-chloroethyl)amine derivatives
L200		<i>-sulfan</i>	antineoplastic, alkylating agents, methanesulfonates
L200		<i>-tepa</i>	antineoplastics, thiotepa derivatives
L300	Radioisotopes (except diagnostics)		
L310	Radioisotopes - systemic		
L320	Radioisotopes - locally applied		
L400	Antineoplastics - antimetabolites	<i>-abine</i>	see <i>-arabine</i> , <i>-citabine</i>
L400		<i>-citabine</i>	nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives
L400		<i>-fur</i>	
L400		<i>-trexate</i>	folic acid analogues
L400		<i>-uridine</i>	uridine derivatives used as antiviral agents and as antineoplastics; also <i>-udine</i>
L410	Ornithine decarboxylase inhibitors		
L500	Antineoplastics - natural products (incl. antibiotics)	<i>-rubicin</i>	antineoplastic antibiotics, daunorubicin derivatives
L500		<i>vin-</i> or <i>-vin-</i>	vinca alkaloids

L600	Antineoplastics - sex hormone analogues and inhibitors		
L610	Aromatase inhibitors		
L620	Luteinizing hormone-releasing hormone agonists		
M000	METABOLISM AND NUTRITION (EXCL. WATER AND MINERAL METABOLISM)	<i>-stat</i> (or <i>-stat-</i>)	enzyme inhibitors; <i>-lipastat</i> : pancreatic lipase inhibitors; <i>-restat</i> or <i>-restat-</i> : aldose-reducing inhibitors; <i>-vastatin</i> : antilipidemic substances, HMG CoA reductase inhibitors
M100	Anoretics	<i>-orex</i>	anoretics
M200	Dietetics and antiadipositas drugs		
M210	Bulk forming drugs		
M300	Agents influencing lipid and fat metabolism	<i>-imibe</i>	antihyperlipidaemics, acyl CoA:cholesterol acyltransferase (ACAT) inhibitors
M300		<i>-lipastat</i>	see <i>-stat</i>
M300		<i>-vastatin</i>	see <i>-stat</i> ; antilipidemic substances, HMGCoA reductase inhibitors
M310	Antiatherosclerosis agents		
M320	Lipotropic agents		
M321		<i>-begron</i>	β_3 -adrenoreceptor agonists
M330	Lipogenesis inducing agents		
M400	Agents influencing protein metabolism		
M410	Anabolic steroids	<i>bol</i>	steroids
M420	Catabolic agents		
M430	Amino acids		
M500	Agents influencing carbohydrate metabolism	<i>-restat</i> (or <i>-restat-</i>)	see <i>-stat</i> ; aldose-reducing inhibitors

M510	Insulins		
M520	Oral antidiabetics - islet mediated	<i>-formin</i>	antihyperglycaemics, phenformin derivatives
M520		<i>gli-, -gli-</i>	previously <i>gly-</i> ; antihyperglycaemics
M520		<i>-glitazar</i>	peroxisome proliferator activating receptor (PPAR) agonists
M520		<i>-glitazone</i>	peroxisome proliferator activating receptor (PPAR) agonists, thiazolidinedione derivatives
M530	Oral antidiabetics - extra pancreatic	<i>gli</i>	antihyperglycaemics
M540	Gluconeogenesis influencing agents		
M600	Agents influencing uric acid metabolism		
M610	Uricosurics		
M620	Uric acid synthesis inhibitors		
M630	Agents influencing oxalic acid metabolism		
M700	Thyroid and antithyroids		
M710	Thyroid and thyroid hormones		
M720	Thyroid stimulators		
M730	Antithyroids		
M740	Radioactive iodine agents (for therapy)		
M800	Enzymes		
M810	Enzyme inhibitors		
M820	Enzyme stimulators		

N000	AGENTS INFLUENCING WATER AND MINERAL METABOLISM		
N100	Diuretics		
N110	Carbonic anhydrase inhibitors	<i>-semide</i>	diuretics, furosemide derivatives
N120	Saluretics	<i>-anide</i>	N.1.2.0 <i>-etanide</i> : diuretics, piretanide derivatives; S.3.0.0 <i>-oxanide</i> : antiparasitic, salicylanilides and analogues
N120		<i>-etanide</i>	diuretics, piretanide derivatives; see <i>-anide</i>
N120		<i>-pamide</i>	diuretics, sulfamoylbenzoic acid derivatives (could be sulfamoylbenzamide)
N121	Thiazide derivatives	<i>-tizide</i>	diuretics, chlorothiazide derivatives
N122	Ethacrynic acid derivatives	<i>-crinat</i>	diuretics, etacrynic acid derivatives
N123	Chlortalidone derivatives		
N129	Saluretics, other		
N130	Mercurial diuretics	<i>-mer-</i> (or <i>-mer-</i>)	mercury-containing drugs, antimicrobial or diuretic (deleted from General Principles in List 28 prop. INN) [<i>mer-</i> and <i>-mer-</i> can be used for any type of substances and are no longer restricted to use in INNs for mercury-containing drugs; <i>-mer</i> : polymers]
N170	Purines and other diuretics		
N180	Aldosterone inhibitors	<i>-renone</i>	aldosterone antagonists, spironolactone derivatives
N200	Acidifiers		
N400	Saline cathartics		
N500	Alkalizers		
N510	Parenteral alkalizer solutions		

N520	Oral antacids	<i>-aldrate</i>	antacids, aluminium salts
N520		<i>-alox</i>	see <i>-ox</i>
N600	Fluid and electrolyte replacement therapy		
N610	Electrolyte and carbohydrate solutions		
N700	Mineral salts		
N710	Ion exchange resins		
N800	Vitamin D group and calcium metabolism drugs	<i>calci</i>	Vitamin D analogues/derivatives
N800		<i>-dronic acid</i>	calcium metabolism regulator, pharmaceutical aid
P000	VITAMINS		
P100	Vitamin A	<i>-arotene</i>	arotinoid derivatives
P100		<i>retin</i>	retinol derivatives
P200	Vitamin B1		
P300	Vitamin B2		
P400	Vitamin B6		
P500	Vitamin C		
P600	Vitamin E		
P700	Nicotinic acid derivatives	<i>-nic</i>	nicotinic acid or nicotinoyl alcohol derivatives
P800	Vitamins, other		
Q000	HORMONES OR HORMONE RELEASE-STIMULATING PEPTIDES	<i>-morelin</i>	see <i>-relin</i> ; pituitary hormone release-stimulating peptides
Q000		<i>prost</i>	prostaglandins; <i>-prostil</i> : prostaglandins, anti-ulcer

Q000		<i>-relin</i>	prehormones or hormone-release stimulating peptides: <i>-morelin</i> : growth hormone release-stimulating peptides; <i>-tirelin</i> : thyrotropin releasing hormone analogues
Q000		<i>som-</i>	growth hormone derivatives
Q000		<i>-tirelin</i>	see <i>-relin</i> ; thyrotropin releasing hormone analogues
Q100	Hypophysis hormones		
Q110	Hypophysis anterior lobe		
Q111	Hypophysis anterior lobe hormones	<i>-actide</i>	synthetic polypeptides with a corticotropin-like action
Q112	Hypophysis anterior lobe inhibitors		
Q120	Hypophysis posterior lobe (incl. other oxytocics)	<i>-pressin</i>	vasoconstrictors, vasopressin derivatives
Q120		<i>-tocin</i>	oxytocin derivatives
Q200	Sex hormones and analogues		
Q210	Estrogens, also interceptive contraceptive agents e.g. epostane (51)	<i>estr</i>	estrogens
Q210		<i>-ifene</i>	antiestrogens, <i>clomifene</i> and <i>tamoxifen</i> derivatives
Q220	Progestogens	<i>gest</i>	steroids, progestogens
Q230	Androgens	<i>andr</i> or <i>-stan-</i> or <i>-ster-</i>	steroids, androgens
Q230		<i>-ster-</i>	androgens/anabolic steroids: <i>-testosterone</i> , <i>-sterone</i> , <i>-ster-</i> , <i>-gesterone</i> , <i>-sterone</i> , <i>sterol</i> , <i>ster</i> , <i>-(a)steride</i>
Q231	Androgens	<i>-terone</i>	antiandrogens
Q240	Gonadotrophins and gonadotrophin secretion stimulating drugs		

Q241	Antigonadotrophins		
Q300	Adrenocortical hormones and analogues	<i>cort</i>	corticosteroids, except prednisolone derivatives
Q300		<i>-olone</i>	steroids other than prednisolone derivatives
Q300		<i>-onide</i>	steroids for topical use, acetal derivatives
Q310	Mineralosteroids		
Q320	Mineralosteroid antagonists		
Q330	Glucosteroids	<i>pred</i>	prednisone and prednisolone derivatives; <i>-methasone</i> or <i>-metasone</i> , <i>-betasol</i> , <i>-olone</i>
Q340	Glucosteroids antagonists		
R000	IMMUNOLOGICALS		
R100	Sera and immunoglobulins		
R200	Vaccines		
R210	Vaccines, live		
R220	Vaccines, activated		
R300	Immunostimulants		
R310	Biological response modifier		
S000	ANTI-INFECTIVES		
S100	Ectoparasiticides		
S200	Antiseptics and disinfectants		
S210	Antiseptics (excl. heavy metal antiseptics)	<i>-nifur-</i>	5-nitrofurans derivatives

S220	Heavy metal antiseptics	<i>-mer-</i>	mercury-containing drugs, antimicrobial or diuretic (deleted from General Principles in List 28 prop. INN) [<i>mer-</i> and <i>-mer-</i> can be used for any type of substances and are no longer restricted to use in INNs for mercury-containing drugs
S230	Detergent antiseptics		
S300	Chemotherapeutics of parasitic diseases	<i>-ectin</i>	antiparasitics, ivermectin derivatives
S300		<i>-oxanide</i>	antiparasitics, salicylanides and analogues; see <i>-anide</i>
S310	Anthelmintics (excl. antinematode agents)	<i>-antel</i>	anthelmintics (undefined group)
S310		<i>-bendazole</i>	anthelmintics, tiabendazole derivatives
S310		<i>-fos (-vos)</i>	insecticides, anthelmintics, pesticides etc., phosphorous derivatives
S310		<i>-fos-</i> or <i>fos-</i>	various pharmacological categories belonging to <i>-fos</i> (other than above)
S320	Antinematode agents		
S330	Antiprotozoal agents (incl. all arsphenamines)	<i>arte-</i>	antimalarial agents, artemisinin related compounds
S330		<i>-nidazole</i>	antiprotozoals and radiosensitizers, metronidazole derivatives
S400	Chemotherapeutics of fungal diseases	<i>-conazole</i>	systemic antifungal agents, miconazole derivatives
S410	Antifungal agents		
S420	Fungicides		
S430	Antifungal antibiotics		
S500	Antibiotics, antibacterial and antiviral agents	<i>-planin</i>	antibacterials (<i>Actinoplanes</i> strains)
S510	Sulfonamides	<i>sulfa-</i>	anti-infectives, sulfonamides

S520	Antimycobacterials	<i>-dapson</i> e	antimycobacterials, diaminodiphenylsulfone derivatives
S520		<i>-pirox</i>	see <i>-ox</i>
S530	Antiviral	<i>-arabine</i>	arabinofuranosyl derivatives
S530		<i>-motine</i>	antivirals, quinoline derivatives
S530		<i>-ribine</i>	ribofuranil-derivatives of the <i>pyrazofurin</i> type
S530		<i>-uridine</i>	uridine derivatives used as antiviral agents and as antineoplastics; <i>-udine</i>
S530		<i>vir</i>	antivirals (undefined group): <i>-amivir</i> : neuraminidase inhibitors, <i>-cavir</i> : carbocyclic nucleosides, <i>-virsen</i> : antisense oligonucleotides
S550	Antibacterial/other	<i>-citabine</i>	nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives
S550		<i>-oxacin</i>	antibacterials, nalidixic acid derivatives
S550		<i>-prim</i>	antibacterials, trimethoprim derivatives
S600	Antibiotics (except antineoplastic antibiotics)	<i>-cidin</i>	naturally occurring antibiotics (undefined group)
S600		<i>-fungin</i>	antifungal antibiotics; USAN: antifungal antibiotics (undefined group)
S600		<i>-gillin</i>	antibiotics produced by <i>Aspergillus</i> strains
S600		<i>-monam</i>	monobactam antibiotics
S600		<i>-mycin</i>	antibiotics, produced by <i>Streptomyces</i> strains (see also <i>-kacin</i>)
S600		<i>-parcin</i>	for glycopeptide antibiotics

S600		<i>-penem</i>	analogues of penicillanic acid antibiotics modified in the five-membered ring
S600		<i>-pristin</i>	antibacterials, pristinamycin derivatives
S610	Antibiotics acting on the bacterial cell wall	<i>-carbef</i>	antibiotics, carbacepham derivatives
S610		<i>cef-</i>	antibiotics, cephalosporanic acid derivatives
S610		<i>-cillin</i>	antibiotics, 6-aminopenicillanic acid derivatives
S610		<i>-oxef</i>	see <i>cef-</i> ; antibiotics, oxacefalosporanic acid derivatives
S620	Antibiotics affecting cell membrane and with detergent effect	<i>-tricin</i>	antibiotics, polyene derivatives
S630	Antibiotics affecting protein synthesis	<i>-cycline</i>	antibiotics, tetracycline derivatives
S630		<i>-kacin</i>	antibiotics, kanamycin and bekanamycin derivatives (obtained from <i>Streptomyces kanamyceticus</i>); S.6.5.0: <i>-micin</i> : antibiotics obtained from various <i>Micromonospora</i>
S640	Antibiotics affecting nucleic acid metabolism	<i>rifa-</i>	antibiotics, rifamycin derivatives
S650	Antibiotics-action unclassified (including beta-lactamase inhibitors)	<i>-bactam</i>	beta-lactamase inhibitors
S650		<i>-micin</i>	see <i>-kacin</i> ; antibiotics obtained from various <i>Micromonospora</i>
S700	Immunomodulators and immunostimulants (incl. gamma globulins)	<i>-imex</i>	immunostimulants
S700		<i>-imod</i>	immunomodulators, both stimulant/suppressive and stimulant

S700		<i>-imus</i>	immunosuppressants (other than antineoplastics)
S700		<i>-kin</i>	interleukin type substances: <i>-nakin, -leukin, -plestim, -exakin, -kinra, -nakinra</i>
S700		<i>-leukin</i>	interleukin type substances
S700		<i>-mab</i>	monoclonal antibodies (see also Annex)
S700		<i>-stim</i>	colony stimulating factors
S710	Interferons and immunomodulators		
T000	LOCALLY ACTING AGENTS (INCL. DERMATOLOGIC AND INTERNALLY USED DRUGS)		
T100	Locally acting externally-applied agents		
T110	Vasodilators (external) - rubefaciens		
T200	Locally acting internally-applied agents		
T210	Adsorbents, astringents		
T220	Lubricant cathartics		
T230	Irritant cathartics		
T240	Gastro-intestinal anti-infectives, non-resorbed		
T250	Saponins		
T260	Detergents		
T300	Intravaginal contraceptives		
U000	MISCELLANEOUS DRUGS		<i>-ermin</i> : growth factors; <i>-dermin</i> : epidermal growth factors; <i>-fermin</i> : fibrino-blast growth factors; <i>-nermin</i> : tumour necrosis factor; <i>-sermin</i> : insulin-like growth factors

U000		<i>gado-</i>	diagnostic agents, gadolinium derivatives
U100	Diagnostic aids	<i>-fenin</i>	diagnostic aids; (phenyl-carbamoyl)methyl iminodiacetic acid derivatives
U110	Radiocontrast media	<i>io-</i>	iodine-containing contrast media
U110		<i>-io or iod-</i>	iodine-containing compounds other than contrast media
U120	Diagnostic aids, other		
U130	Diagnostic radioisotopes		
U200	Chelating agents, detoxicants, etc.		
U210	Alcohol deterrents		
U300	Anti-inflammatory agents		
U310	Non-antipyretic antirheumatics		
U320	Anti-inflammatory agents, other		
U400	Pharmaceutical adjuncts	<i>cell- or cel-</i>	cellulose derivatives; (<i>cell-ate</i> and <i>-cellose</i>)
U400		<i>-dronic acid</i>	calcium metabolism regulator, pharmaceutical aid
V000	UNCLASSIFIED PHARMACOLOGICAL MECHANISMS		
V100	Intrauterine contraceptive device		
V200	Medicinal plants		
V300	Homoeopathic preparations		
W000	ENZYMES AND VARIOUS	<i>-ase</i>	enzymes; <i>-dismase</i> , <i>-teplase</i> , <i>-uplase</i>
W000		<i>-stat</i>	enzyme inhibitors
Y000	VETERINARY DRUGS	<i>-nidazole</i>	antiprotozoals and radiosensitizers, metronidazole derivatives

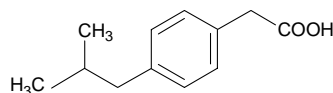
ALPHABETICAL LIST OF STEMS TOGETHER WITH CORRESPONDING INNS

-abine **see -arabine, -citabine**

USAN

-ac (x) **anti-inflammatory agents, ibufenac derivatives**

A.4.2.0 (USAN: anti-inflammatory agents (acetic acid derivatives))



(a) aceclofenac (52), alclofenac (23), amfenac (38), aniolac (52), bendazac (22), bromfenac (55), cinfoenac (41), clidanac (39), clofurac (42), clopirac (30), dexpemedolac (71), diclofenac (28), eltenac (53), etodolac (45), felbinac (54), fenclofenac (30), fenclorac (33), fentiazac (32), furofenac (40), ibufenac (14), isoxepac (37), ketorolac (51), lexofenac (38), nepafenac (78), oxepinac (36), oxindanac (54), pemedolac (58), (quinclorac, ISO name for a herbicide), sulindac (33), tianafac (31), tifurac (57), tiopinac (40), zomepirac (37)

-zolac: bufezolac (39), isofezolac (39), lonazolac (34), mofezolac (64), pirazolac (43), trifezolac (34)

(b) amtolmetin guacil (65), bufexamac (20) (anti-inflammatory; acetohydroxamic acid group instead of acetic acid group)

(c) clamidoxic acid (17), fenclozic acid (22), metiazinic acid (20), prodolic acid (29), tolmetin (23)

-acetam **see -racetam**

USAN

-actide (x) **synthetic polypeptides with a corticotropin-like action**

Q.1.1.1 (USAN: synthetic corticotropins)

(a) alsactide (45), codactide (24), giractide (29), norleusactide (18), seractide (31), tetracosactide (18), tosactide (24), tricosactide (44)

BAN, USAN

**-adol (x)
or -adol-** **analgesics (14th Report, 1967)**

A.4.1.0

A.4.2/3.0 (USAN: analgesics (undefined group))

- (a) A.4.1.0: acetylmethadol (5), alimadol (39), alphacetylmethadol (5), alphamethadol (5), axomadol (87), betacetylmethadol (5), betamethadol (5), levacetylmethadol (27), noracymethadol (12), tapentadol (87)

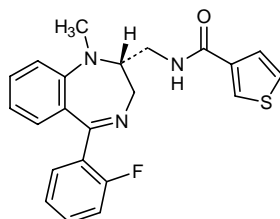
A.4.2/3.0: apadoline (74), asimadoline (74), bromadoline (49), ciprefadol (41), ciramadol (39), cloracetadol (16), dibusadol (24), dimenoxadol (7), diproxadol (34), enadoline (68), filenadol (47), flumexadol (36), fluradoline (48), gaboxadol (48), levonantradol (43), lorcinadol (57), moxadolen (45), (deleted in List 48: moxifadol (47)), myfadol (17), nafoxadol (50), nantradol (42), nerbacadol (56), oxapadol (40), picenadol (47), pinadoline (50), pipradimadol (42), pipramadol (42), pravadoline (60), vadoline (60), profadol (20), radolmidine (82), ruzadolane (71), spiradoline (53), tazadolene (52), tolpadol (48), tramadol (22), veradoline (47)

- (b) alfadolone (27), hexapradol (12) (CNS stimulant), nadolol (34), quinestradol (15) (estrogenic)

- (c) A.4.1.0: dimepheptanol (5)

-adom **analgesics, tifuladom derivatives**

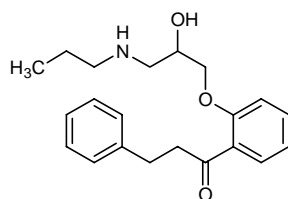
A.4.3.0



- (a) lufuradom (50), tifuladom (48)

-afenone **antiarrhythmics, propafenone derivatives**

H.2.0.0



- (a) alprafenone (62), berlafenone (63), diprafenone (48), etafenone (19), propafenone (29)

-afil **inhibitors of phosphodiesterase PDE5 with vasodilator action**

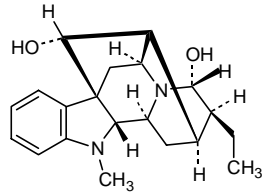
F.2.0.0

(a) beminafil (90), sildenafil (75), tadalafil (85), vardenafil (82)

USAN

-aj- **antiarrhythmics, ajmaline derivatives**

H.2.0.0



(a) detajmium bitartrate (34), lorajmine (34), prajmalium bitartrate (23)

-al (d) **aldehydes**
(deleted from General Principles in 14th Report)

USAN

-aldrate **antacids, aluminium salts**

N.5.2.0

(a) carbaldrate (53), potassium glucaldrate (14), sodium glucaspaldrate (17), magaldrate (49), simaldrate (15)

USAN

-alol **see -olol**

-alox **see -ox**

-amivir **see -vir**

-ampanel **amino-hydroxymethyl-isoxazole-propionic acid (AMPA) receptor antagonists**

B.0.0.0

(a) becampanel (90), fanapanel (80), irampanel (82), talampanel (80), zonampanel (85)

USAN

andr (d) steroids, androgens

Q.2.3.0 (USAN: -andr- androgens)

(a) i. andr: androstanolone (4), methandriol (1), nandrolone (22), norethandrolone (6), ovandrotone albumin (52), silandrone (18)ii. -stan- (d): androstanolone (4), drostanolone (13), epitiostanol (31), mestanolone (10), stanozolol (18), epostane (51) (contraceptive)iii. -ster- (d): calusterone (23), cloxotestosterone (12), fluoxymesterone (6), mesterolone (15), methyltestosterone (4), oxymesterone (12), penmesterol (14), prasterone (23), testosterone (4), testosterone ketolaurate (16), tiomesterone (14)(b) i. andr: oxandrolone (12), propetandrol (13)iii. ster: aldosterone (6), bolasterone (13), dihydrotachysterol (1), dimethisterone (8), ethisterone (4), norethisterone (6), norvinisterone (6), stercuronium iodide (21) (neuromuscular blocking agent)

(c) metandienone (12), oxymetholone (11), trestolone (25) (antineoplastic androgen)

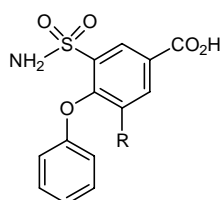
-anib angiogenesis inhibitors

L.0.0.0

(a) pegaptanib (88), semaxanib (85), vatalanib (84)

-anide*-etanide* diuretics, piretanide derivatives

N.1.2.0 (USAN: diuretics (piretanide group))

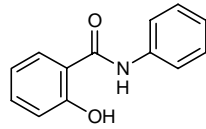


(a) bumetanide (24), piretanide (33)

(c) besunide (30)

-oxanide antiparasitic, salicylanilides and analogues

S.3.0.0



(a) bromoxanide (31), clioxanide (19), rafoxanide (24)

thioanalogues: brotianide (24)

related: diloxanide (8), nitazoxanide (45)

(b) closantel (36), flurantel (25), niclosamide (13), resorantel (23), salantel (29)

(c) oxyclozanide (16)

other -anides: aurothioglycanide (1) (anti-arthritic; gout-remedy), ceforanide (39) (antibiotic), oglufanide (86) (immunomodulator), polihexanide (24) (antibacterial), tiprostanide (48) (antihypertonic)

BAN, USAN

-anserin **serotonin receptor antagonists (mostly 5-HT₂)**

C.7.0.0 (USAN: serotonin receptor antagonists (undefined group))

(a) adatanserin (70), altanserin (50), blonanserin (76), butanserin (51), eplivanserin (80), fananserin (69), flibanserin (75), iferanserin (89), ketanserin (46), lidanserin (62), pelanserin (57), pruvanserin (90), seganserin (56), tropanserin (55)

(b) serotonin receptor antagonists, psychoactive: cinanserin (17), glemanserin (68), mianserin (20), ritanserin (51)

USAN

-antel **anthelmintics (undefined group)**

S.3.1.0

(a) amidantel (40), carbantel (35), closantel (36), epsiprantel (57), febantel (38), flurantel (25), morantel (22), oxantel (31), pexantel (22), praziquantel (34), pyrantel (17), resorantel (23), salantel (29), zilantel (33), antelmecin (15)

-apine **see -pine**

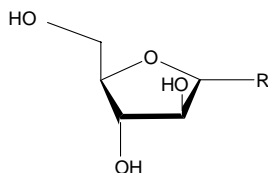
USAN

-(ar)abine arabinofuranosyl derivatives

L.4.0.0/

S.5.3.0

(USAN: -arabine: antineoplastic arabinofuranosyl derivatives)



- (a) ancitabine (36), capecitabine (73), clofarabine (90), cytarabine (14), decitabine (61), emtricitabine (80), enocitabine (46), fazarabine (56), fiacitabine (59), fludarabine (48), flurocitabine (38), galocitabine (65), gemcitabine (62), ibacitabine (57), nelarabine (80), vidarabine (23), zalcitabine (66)

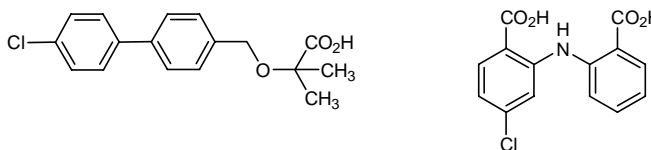
- (c) S.5.3.0: ribavirin (31)

USAN

-arit antiarthritic substances, acting like clobuzarit and lobenzarit, (mechanism different from anti-inflammatory type substances, e.g. -fenamates or -profens)

A.4.2.0

(USAN: antirheumatic substances, acting similarly to lobenzarit)



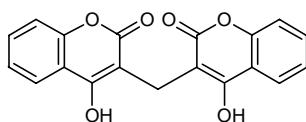
- (a) actarit (62), bindarit (64), clobuzarit (44), lobenzarit (46), romazarit (60)

USAN

-arol (d) anticoagulants, dicoumarol derivatives

I.2.1.0

(USAN: anticoagulants (dicoumarol type))



- (a) acenocoumarol (6), clocoumarol (31), coumetarol (13), dicoumarol (23), tiocloamarol (31), xylocoumarol (15)
- (b) cloridarol (29) (coron. vasodil.), fluindarol (16) (anticoag. of indonedione-type)
- (c) diarbarone (15), ethyl biscoumacetate (4), phenprocoumon (11), warfarin (23)

-arone amiodarone (16) (anti-arrhythmic), benzarone (13), benzbromarone (13) (uricosuric), benziodarone (11), brinazarone (64) (calcium channel blocker), bucromarone (48) (antiarrhythmic), diarbarone (15), dronedarone (75) (anti-anginal, antiarrhythmic), etabenzarone (17), fantofarone (65) (calcium channel blocker), furidarone (19), inicarone (27), mecinarone (30), pyridarone (16), rilozarone (58)

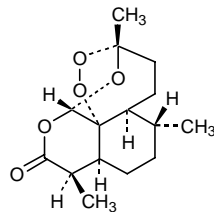
-arotene **arotinoid derivatives**

P.1.0.0

(a) betacarotene (38), bexarotene (80), etarotene (64), linarotene (65), mofarotene (70), sumarotene (64), tamibarotene (73), tazarotene (72), temarotene (54)

arte- **antimalarial agents, artemisinin related compounds**

S.3.3.0



(a) artemether (61), artemisinin (56), artemotil (80), artenimol (81), artesunate (61), arteflene (70)

USAN

-ase **enzymes**

W.0.0.0

(a) agalsidase alfa (84), agalsidase beta (84), alglucerase (68), brinase (22), cocarboxylase (1), dornase alfa (70), eufauserase (84), hyalosidase (50), hyaluronidase (1), idusulfase (87), kallidinogenase (22), ocrase (28), pegaspargase (64), penicillinase (10), promelase (47), rizolipase (22), serrapeptase (31), sfericase (40), streptodornase (6), streptokinase (6), tilactase (50), urokinase (48)

(c) batroxobin (29), bromelains (18), chymopapain (26), chymotrypsin (10), defibrotide (44), orgotein (31), sutilains (18), ubidecarenone (48)

Classification of enzymesI proteinase(a) with -ase suffix:

<u>(INN)</u>	<u>(origin)</u>	<u>(use, action)</u>
brin <u>ase</u> (22)	<i>Aspergillus oryzae</i>	fibrinolytic
kallidinogen <u>ase</u> (22)	pancreas or urine of mammals	splitting kinin, kallidin from kininogen (vasodilator)
ocr <u>ase</u> (28)	<i>Aspergillus ochraceus</i>	fibrinolytic (topically: cleaning wounds)
pegasparg <u>ase</u> (64)		asparaginase
promel <u>ase</u> (46)	<i>Aspergillus melleus</i>	proteinase (chronic bronchitis)
rasburic <u>ase</u> (81)	<i>Aspergillus flavus</i>	urate oxidase (hyperuricaemia)
serrapept <u>ase</u> (31)	<i>Serratia sp.</i> E15	proteinase (chronic paranasal sinusitis etc.)
sferic <u>ase</u> (40)	<i>Bacillus sphaericus</i>	proteinase (chronic paranasal sinusitis etc.)
streptokin <u>ase</u> (6)	<i>Streptococcus haemolyticus</i>	changing plasminogen into plasmin (activator of fibrinolysis)
urokin <u>ase</u> (48)	human origin	plasminogen activator
urokin <u>ase</u> alfa (27)	recombinant material	plasminogen activator

(b) without -ase suffix:

batroxobin (29)	the venom of the serpent <i>Bothrops atrox</i>	thrombin like enzyme
bromelains (18)	<i>Ananas comosus</i> Merr.	fibrin depolymerizing (antiinflammatory)
chymopapain (26)	papaya latex	proteolytic (chemonucleolysis)
chymotrypsin (10)	mammalian pancreas	proteolytic (antiinflammatory, antioedema)

	defibrotide (44)	mammalian pancreas	proteolytic (antiinflammatory, antioedema)
	sutilains (18)	<i>Bacillus subtilis</i>	proteolytic
<hr/>			
II	<u>-lipase</u>		
	rizolipase (22)	<i>Rhizopus arrhizus</i> var. Delemar	lipase
<hr/>			
III	<u>co-enzymes</u>		
	cocarboxylase (1)	chemically defined	co-enzyme in the metabolism of pyruvic acid
	ubidecarenone (48)	chemically defined	naturally occurring co-enzyme, a component in the electron transfer system in mitochondria (congestive heart failure)
<hr/>			
IV	<u>-dismase</u>	enzymes with superoxide dismutase activity	
		(USAN: superoxide dismutase activity (exception: orgotein))	
(a)	ledismase (70), sudismase (58)		
(c)	<u>isomerase</u>		
	orgotein (31)	mammalian tissue (liver, red blood cell etc.)	superoxide dismutase activity (anti-inflammatory)
	pegorgotein (72)		
<hr/>			
V	<u>-diplase</u>	plasminogen activator combined with another enzyme	
	amediplase (79)		
<hr/>			
VI	<u>-teplase</u>	tissue-type-plasminogen activators	
(a)	alteplase (59), anistreplase (59), desmotepase (80), duteplase (62), lanoteplase (76), montepase (71), nateplase (73), pamiteplase (78), reteplase (69), silteplase (65), tenecteplase (79)		

USAN

USAN

			USAN
VII	<u>-uplase</u>	urokinase-type-plasminogen activators	
(a)		nasaruplase (68), nasaruplase beta (85), saruplase (58)	

VIII	<u>others</u>		
	agalsidase alfa (84)	human origin	treatment of deficiency of alpha-galactosidase activity (Fabry's disease)
	agalsidase beta (84)	<i>hamster</i>	treatment of deficiency of alpha-galactosidase activity (Fabry's disease)
	alfimeprase (85)	<i>Agkistrodon contrix contrix</i>	antithrombotic
	dornase alfa (70)	human origin	treatment of cystic fibrosis
	epafipase (85)	human origin	antiallergic, antiasthmatic
	eufauserase (84)	<i>Euphausia Superba</i>	digests proteins and selected cell surface adhesion molecules (wound healing; vaginal/oral candidosis)
	hyalosidase (50)		hyaluronoglucosaminidase (treatment of myocardial infarction)
	hyaluronidase (1)	various origins	depolymerizing hyaluronic acid (cellular diffusion factor)
	idusulfase (87)		treatment of Hunter Syndrome (Mucopolysaccharidosis Type II), degrades glycosaminoglycans heparan and dermatan sulfate
	imiglucerase (72)	human origin (placenta isoenzyme)	
	laronidase (85)	human origin	
	penicillinase (10)	<i>Bacillus cereus</i>	inactivating penicillin
	ranpirnase (81)	<i>Rana pipiens</i>	ribonuclease (antineoplastic)

streptodorn <u>ase</u> (6)	<i>Streptococcus haemolyticus</i>	hydrolysing desoxyribonucleoprotein
tilact <u>ase</u> (50)	β -D-glactosidase	

BAN, USAN

-ast (x) antiasthmatic, antiallergics, not acting primarily as antihistaminics

K.0.0.0 (BAN: antiasthmatics, antiallergics when not acting primarily as antihistamines)
(USAN: antiasthmatics or antiallergic substances not acting primarily as antihistamines)

- (a) acitazanolast (72), acreozast (77), andolast (67), asobamast (63), ataquimast (82), bamaquimast, (76), batebulast (66), binizolast (60), bunaprolast (60), cilomilast (82), dametralast (54), dazoquinast (54), doqualast (48), eclazolast (55), eflumast (61), enofelast (67), enoxamast (52), fenprinast (48), filaminast (75), ibudilast (58), idenast (58), lirimilast (85), loxanast (46), melquinast (62), ontazolast (72), oxalinast (49), pemirolast (61), piclamilast (73), picumast (47), pirodomast (64), quazolast (55), raxofelast (68), repirinast (55), revenast (51), roflumilast (77), scopinast (76), suplatast tosilate (64), tazanolast (59), tetrazolast (67), tiacrilast (52), tibenelast (58), tioxamast (53), tiprinast (50), tofimilast (85), tranilast (46), zaprinast (46)

-lukast leukotriene receptor antagonist

- (a) ablukast (61), cinalukast (70), iralukast (70), montelukast (73), pobilukast (70), pranlukast (67), ritolukast (64), sulukast (63), tomelukast (59), verlukast (65), zafirlukast (71)

-trodast thromboxane A₂ receptor antagonists, antiasthmatics

- (a) imitrodast (70), seratrodast (70)
- (c) bufrolin (34), oxarbazole (38), pirolate (44)

-(a)steride see -ster-

BAN, USAN

-astine (x) antihistaminics

G.2.0.0 (BAN: antihistamines, not otherwise classifiable)
(USAN: antihistaminics (histamine-H₁ receptor antagonists))

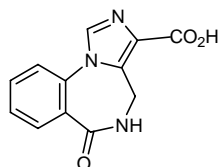
- (a) acrivastine (51), alinastine (74), azelastine (36), barmastine (59), bepiastine (19), bepotastine (78), bilastine (82), cabastinen (50), carebastine (52), clemastine (22), dorastine (23), ebastine (52), emedastine (59), epinastine (55), flezelastine (67), levocabastine (50), linetastine (74), mapinastine (72), mizolastine (64), moxastine (15), noberastine (59), octastine (37), perastine (15), piclopastine (22), rocastine (57), setastine (39), talastine (18), temelastine (54), zepastine (26)
- (b) cloperastine (18) (antitussive), vinblastine (12) (vinca-alkaloid)

(c) astemizole (45), carbinoxamine (4)

-azam see - azepam

-azenil benzodiazepine receptor antagonists/agonists (benzodiazepine derivatives)

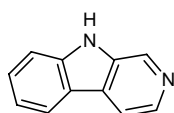
USAN



(a) bretazenil (60), flumazenil (55), iomazenil ¹²³I (66), sarmazenil (59)

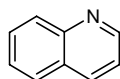
(b) nabazenil (49)

-carnil benzodiazepine receptor antagonists/agonists (carboline derivatives)



(a) abecarnil (60), gedocarnil (61)

-quinil benzodiazepine receptor agonists, also partial or inverse (quinoline derivatives)

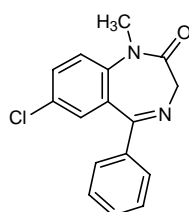


(a) lirequinil (72), resequinil (90), terbequinil (63)

BAN, USAN

-azepam (x) diazepam derivatives

C.1.0.0 (BAN: substances of the diazepam group)
(USAN: antianxiety agents (diazepam type))



(a) bromazepam (22), camazepam (30), carburazepam (39), cinolazepam (46), clonazepam (22), cyprazepam (16), delorazepam (40), diazepam (12), doxefazepam (43), elfazepam (36), fletazepam (31), fludiazepam (36), flunitrazepam (24), flurazepam (20),

flutemazepam (58), flutoprazepam (45), fosazepam (27), halazepam (29), iclazepam (37), lorazepam (23), lormetazepam (38), meclonazepam (44), medazepam (20), menitrazepam (22), metaclazepam (46), motrazepam (31), nimetazepam (26), nitrazepam (16), nordazepam (39), nortetrazepam (20), oxazepam (13), pinazepam (32), pivoxazepam (34), prazepam (14), proflazepam (31), quazepam (36), reclazepam (53), sulazepam (14), temazepam (22), tetrazepam (17), tolufazepam (51), tuclazepam (40), uldazepam (30)

not true benzodiazepines: bentazepam (33), clotiazepam (30), lopirazepam (36), premazepam (45), ripazepam (33), zolazepam (28)

related: adinazolam (45), alprazolam (30), arfendazam (39), clazolam (29), climazolam (51), clobazam (25), clobenzepam (25), cloxazolam (29), ecopipam (80), estazolam (31), flutazolam (32), haloxazolam (38), ketazolam (26), lofendazam (36), loprazolam (44), mexazolam (40), midazolam (40), nefopam (25), oxazolam (25), razobazam (52), tofisopam (26), trepipam (38), triazolam (30), triflubazam (28), zapizolam (43), zomebazam (49)

- (c) brotizolam (40), chlordiazepoxide (11), ciclotizolam (40), demoxepam (23), dipotassium clorazepate (17), ethyl carfluzepate (43), ethyl dirazepate (44), ethyl loflazepate (43), etizolam (40), potassium nitrazepate (17)

not related: anti-anx.: fenobam (36), muscle relax.: xilobam (36)

-azepide cholecystokinin receptor antagonists

J.1.0.0

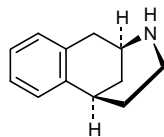
- (a) devazepide (62), pranazepide (75), tarazepide (68)

- (c) lorglumide (56)

USAN

-azocine narcotic antagonists/agonists related to 6,7-benzomorphan

A.4.1.0 (USAN: narcotic antagonists/agonists related to 6,7-benzo-morphan)



- (a) anazocine (30), bremazocine (43), butinazocine (53), carbazocine (16), cogazocine (36), cyclazocine (14), eptazocine (45), gemazocine (29), ibazocine (36), ketazocine (34), metazocine (9), moxazocine (38), pentazocine (14), phenazocine (9), quadazocine (54), tonazocine (46), volazocine (19)

- (b) streptozocin (33)

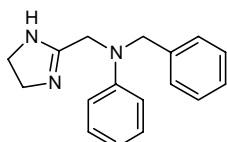
related compounds: dezocine (35)

-azolam see **-azepam**

-azoline **antihistaminics or local vasoconstrictors, antazoline derivatives**

USAN

E.4.0.0 (USAN: antihistaminics or local vasoconstrictors of the antazoline group)



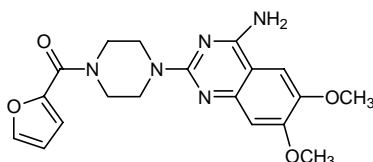
- (a) antazoline (1), cilutazoline (61), cirazoline (38), clonazoline (18), coumazoline (26), domazoline (30), fenoxazoline (12), indanazoline (42), metrafazoline (33), naphazoline (1), nemazo-line (63), oxymetazoline (13), phenamazoline (6), prednazoline (22), tefazoline (24), tinazoline (39), tramazoline (15), xylometazoline (8)
- (b) cefazolin (25) (antibiotic)
- (c) tetryzoline (6), metizoline (22)

-azone see **-buzone**

-azosin **antihypertensive substances, prazosin derivatives**

USAN

H.3.0.0 (USAN: antihypertensives (prazosin type))



- (a) bunazosin (50), doxazosin (47), neldazosin (60), prazosin (22), quinazosin (17), terazosin (44), tiodazosin (41), trimazosin (31)

related: alfuzosin (49), tamsulosin (65), tipentisin (55)

-bactam **β -lactamase inhibitors**

BAN, USAN

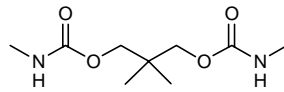
S.6.5.0

- (a) brobactam (53), sulbactam (44), tazobactam (60)
- (c) clavulanic acid (44)

BAN, USAN

-bamate **tranquillizers, propanediol and pentanediol derivatives**

C.1.0.0

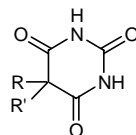


- (a) cyclobarbamate (13), meprobamate (6), nisobamate (21), pentabamate (13), tybamate (14)
- (b) difebarbamate (16), febarbamate (12), lor**ba**mamate (24), phenpro**ba**mamate (10)
- (c) mebutamate (12), metaglycodol (12) (not a carbamate)

BAN, USAN

barb (d) **hypnotics, barbituric acid derivatives**

A.2.1.0 (BAN: -barb, -barb-: for barbiturates)
 (USAN: -barb; or -barb-: barbituric acid derivatives)



- (a) allobarbital (1), amobarbital (1), aprobarbital (1), barbexa-clone (16), barbital (4), barbital sodium (4), benzobarbital (25), brallobarbital (41), carbubarb (14), cyclobarbital (1), difebarbamate (16), eterobarb (32), febarbamate (12), heptabarb (14), hexobarbital (1), methylphenobarbital (1), nealbarbital (11), pentobarbital (1), phenobarbital (4), phenobarbital sodium (4), probarbital sodium (1), proxibarbal (33), secbutabarbital (12), secobarbital (4), tetrabarbital (4), thialbarbital (4), thiotetrabarbital (4), vinbarbital (1)
- (c) butalbital (4), buthalital sodium (8), metharbital (1), methitural (6), methohexital (8), phetharbital (10), talbutal (17), thiopental sodium (4), vinylbital (12)
- prazitone (19) (barbituric acid derivative used as antidepressive), bucolome (17) (barbituric acid derivative used as anti-inflammatory uricosuric)

-begron **β₃-adrenoreceptor agonists**

M.3.2.1

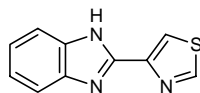
- (a) mantabegron (88), rafabegron (88), solabegron (90), talibegron (86)

-benakin **see -kin****-bendan** **see -dan**

USAN

-bendazole anthelmintics, tiabendazole derivatives

S.3.1.0 (USAN: anthelmintics (tiabendazole type))



- (a) albendazole (35), albendazole oxide (56), bisbendazole (29), cambendazole (24), ciclo bendazole (31), dribendazole (49), etibendazole (49), fenbendazole (29), flubendazole (34), lobendazole (28), luxabendazole (52), mebendazole (24), oxibendazole (30), parbendazole (19), subendazole (31), tiabendazole (13), triclabendazole (45)
- (b) bendazol (12) (vasodilator, also benzimidazole derivative)
L.0.0.0: nocodazole (36), procodazole (36) (also benzimidazole derivative)
- (c) oxfendazole (35), tioxidazole (39)
related: furodazole (37) (S.3.1.0)

-bermin see -ermin**-betasol see pred****-bersat anticonvulsants, benzoylamino-benzopyran derivatives**

A.3.1.0

- (a) carabersat (85), tidembersat (84), tonabersat (85)

BAN, USAN

bol (x) anabolic steroids

M.4.1.0 (BAN: steroids, anabolic)
 (USAN: bol- or -bol- : anabolic steroids)

- (a) bolandiol (16), bolasterone (13), bolazine (21), boldenone (20), bolenol (19), bolmantalate (16), clostebol (22), enestebol (22), formebolone (31), furazabol (16), mebolazine (21), mesabolone (29), metribolone (17), mibolerone (27), norboletone (15), norclostebol (22), oxabolone cipationate (14), quinbolone (14), roxibolone (40), stebolone (17), tibolone (22), trenbolone (24)
- (c) ethylestrenol (13), hydroxystenozole (10), metandienone (12), metenolone (12), oxandrolone (12), propetandrol (13), tiomesterone (14)

-bradine **bradycardic agents**

H.0.0.0

(a) cilobradine (63), ivabradine (75), zatebradine (62)

-brate **see -fibrate**

-bufen **non-steroidal anti-inflammatory agents, *arylbutanoic acid* derivatives**

A.4.2.0

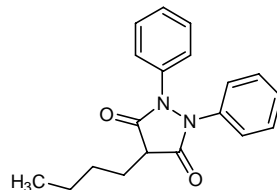
(a) butibufen (32), fenbufen (30), furobufen (30), indobufen (39), metbufen (43)

-butazone **see -buzone**

USAN

-buzone (x) **anti-inflammatory analgesics, phenylbutazone derivatives**

A.4.2.0



(a) feclobuzone (27), kebutzone (19), pipebutzone (25), suxibuzone (24), tribuzone (33)

-butazone (USAN: anti-inflammatory analgesics of the phenylbutazone type)

mofebutazone (15), oxyphenbutazone (8), phenylbutazone (1)

-azone aminophenazone (13), bisfenazone (33), famprofazone (21), morazone (12), nifenazone (15), nimazone (20), niprofazone (29), phenazone (4), propylphenazone (1), sulfinpyrazone (8)

-zone clofezone (17), proxifezone (24)

related: azapropazone (18), benhepazone (15), bumadizone (24), cinnopentazone (17), isamfazone (37), metamfazone (12), osmadizone (26), ruvazone (26)

(c) benzpiperylone (12), butopyrammonium iodide (8), dibupyrone (17), metamizole sodium (53), metazamide (16), piperylone (11)

BAN, USAN

-caine (x) local anaesthetics

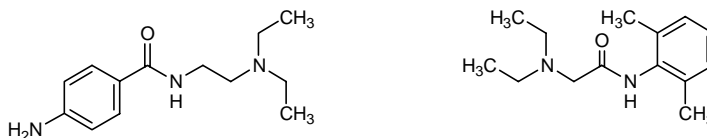
D.1.0.0

- (a) ambucaine (6), amoxecaine (1), aptocaine (21), articaine (47) (previously carticaine (27)), benzocaine (42), betoxycaine (13), bucricaine (49), bumecaine (25), bupivacaine (17), butacaine (4), butanilicaine (16), chloroprocaine (6), cinchocaine (1), clibucaine (14), clodacaine (13), clormecaine (17), cyclomethycaine (6), dexivacaine (20), diamocaine (22), edronocaine (84), elucaine (29), etidocaine (29), fexicaine (25), fomocaine (18), hexylcaine (4), hydroxyprocaine (1), hydroxytetracaine (1), ipravacaine (85), ketocaine (15), leucinocaine (17), levobupivacaine (74), lidocaine (1), lotucaine (27), mepivacaine (11), meprylcaine (4), myrtecaine (15), octacaine (14), oxetacaine (13), oxybuprocaine (8), parethoxycaine (1), paridocaine (8), phenacaine (4), pinolcaine (32), piperocaine (1), piridocaine (1), pramocaine (4), pribecaine (32), prilocaine (14), procaine (10), propanocaine (6), propipocaine (16), propoxycaine (4) proxymetacaine (6), pyrrocaine (13), quatacaine (18), quinisocaine (4), risocaine (26), rodocaine (27), ropivacaine (50), tetracaine (4), tolycaine (16), trapencaine (56), trimecaine (11), vadocaine (57)
- (c) amolanone (6), benzyl alcohol (1), cryofluorane (6), diperodon (1), dyclonine (6), midamaline (6)

BAN

-cain- (x) Class I antiarrhythmics, procainamide and lidocaine derivatives

H.2.0.0 (BAN: antifibrillants with local anaesthetic activity)

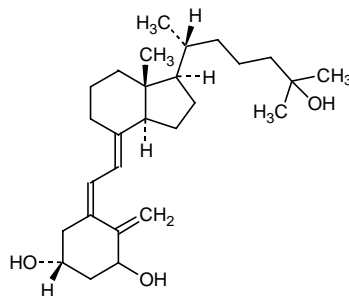


- (a) acecainide (39), asocainol (47), barucainide (52), bucinide (35), carcainium chloride (36), carocainide (46), droxicainide (47), encainide (40), epicainide (40), erocainide (50), flecainide (37), guafecainol (38), indecainide (48) (originally ricainide (47)), itrocainide (54), ketocainol (32), lorcainide (38), milacainide (77), modocainide (63), murocainide (46), nicainoprol (46), nofecainide (44), pilsicainide (62), pincainide (49), procainamide (1), quinacainol (50), recainam (54), solpecainol (55), stirocainide (47), suricainide (55), tocainide (36), transcainide (51), (verocainine (42) - replaced by tiapamil in List 43), zocainone (41)

USAN

calci **Vitamin D analogues/derivatives**

N.8.0.0



- (a) alfacalcidol (40), atocalcitol (88), calcifediol (26), calcipotriol (61), calcitriol (39), colecalciferol (13), doxercalciferol (82), ecalcidene (85), ergocalciferol (13), falecalcitriol (74), inecalcitol (87), lexacalcitol (71), maxacalcitol (75), paricalcitol (78), secalciferol (62), seocalcitol (78), tacalcitol (65)
- (b) calcitonin (31) (polypeptide)
- (c) dihydrotachysterol (1)

USAN

-carbef **antibiotics, carbacepham derivatives**

S.6.1.0

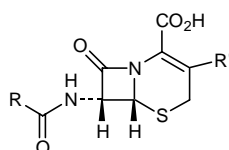
- (a) loracarbef (60)

-carnil **see -azenil****-castat** **see -stat****-cavir** **see vir**

BAN, USAN

cef- (x) **antibiotics, cephalosporanic acid derivatives**

S.6.1.0 (USAN: cephalosporins)

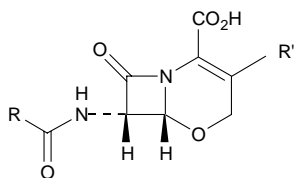


- (a) cefacetrile (25), cefaclor (36), cefadroxil (33), cefalexin (18), cefaloglycin (16), cefalonium (16), cefaloram (16), cefaloridine (15), cefalotin (14), cefamandole (30), cefaparole (33),

cefapirin (23), cefatrizine (34), cefazaflur (36), cefazedone (36), cefazolin (25), cefbuperazone (48), cefcanel (59), cefcanel daloxate (59), cefcapene (68), cefclidine (64), cefdaloxime (64), cefdinir (61), cefditoren (66), cefedrolor (53), cefempidone (58), cefepime (57), cefetamet (49), cefetecol (64), cefetrizole (44), cefivitril (52), cefixime (53), cefizopran (66), ceftuprenam (71), cefmatilen (81), cefmenoxime (44), cefmepidium chloride (57), cefmetazole (39), cefminox (53), cefodizime (44), cefonicid (42), cefoperazone (42), ceforanide (39), cefoselis (71), cefotaxime (40), cefotetan (48), cefotiam (40), cefoxazole (34), cefoxitin (29), ceftazopran (66), cefpimizole (50), cefpiramide (47), cefpirome (50), cefpodoxime (58), cefprozil (60), cefquinome (59), cefradine (26), cefrotil (34), cefroxadine (42), cefsulodin (38), cefsumide (38), ceftazidime (44), cefteram (55), ceftazole (34), ceftibuten (60), ceftiofur (53), ceftiolene (49), ceftioxide (43), ceftizoxime (42), ceftizoxime alaproxil (77), ceftriaxone (44), cefuracetime (45), cefuroxime (34), cefuzonam (55)

-oxef antibiotics, oxacefalosporanic acid derivatives

S.6.1.0 (USAN: antibiotic oxacefalosporanic acid derivatives)



(a) flomoxef (55), latamoxef (46)

cell- or cellulose derivatives
cel- [cel- in spanish]

U.4.0.0

(a) celucloral (40)

(c) celiprolol (35)

cell-ate cellulose ester derivatives for substances containing acidic residues

U.4.0.0 **[cel-ato in spanish]**

(a) cellaburate (23), cellacefate (18)

-cellose cellulose ether derivatives

U.4.0.0 **[-elosa in spanish]**

(a) -

(c) carmellose (45), croscarmellose (48), ethylcellulose (80), hyetellose (80), hymetellose (80), hyprolose (80), hypromellose (18), methylcellulose (4)

USAN

-cic **hepatoprotective substances with a carboxylic acid group**

J.1.2.0 (USAN: hepatoprotectives (timonacic group))

- (a) limazocic (69), tidiacic (33), timonacic (33), (tiofacic (45) replaced by stepronin (46))
- (b) bisorcic (34) (psychostimulant)
- (c) stepronin (46)

USAN

-cidin **naturally occurring antibiotics (undefined group) (14th Report, 1964)**

S.6.0.0 (USAN: natural antibiotics (undefined group))

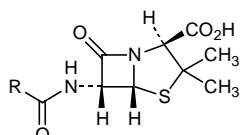
- (a) candicidin (17), gramicidin (1), gramicidin S (26), methocidin (6)
- (b) guancidine (18) (hypotensive)

-cillide **see -cillin**

BAN, USAN

-cillin (x) **antibiotics, 6-aminopenicillanic acid derivatives**

S.6.1.0 (USAN: penicillins)



- (a) adicillin (14), almecillin (14), amantocillin (17), amoxicillin (27), ampicillin (13), apalcillin (39), aspoxicillin (50), azidocillin (19), azlocillin (36), bacampicillin (32), benethamine penicillin (1), benzathine benzylpenicillin (18), benzylpenicillin (53), carbenicillin (20), carfecillin (30), carindacillin (29), ciclacillin (22), clemizole penicillin (8), clometocillin (12), cloxacillin (13), dicloxacillin (16), epicillin (25), fenbenicillin (13), fibracillin (30), flucloxacillin (17), fomidacillin (55), fumoxicillin (47), furbucillin (31), fuzlocillin (47), hetacillin (16), isopropicillin (12), lenampicillin (50), levopropicillin (12), metampicillin (20), meticillin (12), mezlocillin (34), nafcillin (13), oxacillin (15), oxetacillin (33), penamecillin (16), pheneticillin (11), phenoxymethyl penicillin (6), phenyracillin (8), piperacillin (38), pirbenicillin (35), piridicillin (43), piroxicillin (49), pivampicillin (23), prazocillin (27), propicillin (13), quinacillin (14), rotamicillin (35), sarmoxicillin (41), sarpicillin (36), sulbenicillin (26), sultamicillin (48), suncillin (25), talampicillin (31), tameticillin (35), temocillin (46), ticarcillin (29), tifencillin (12), tobicillin (78)
- (b) xantocillin (12)

(c) penimepicycline (16), penimocycline (22)

-cillide

S.6.1.0 libecillide (32)

-cillinam

S.6.1.0 bacmecillinam (38), mecillinam (32), pivmecillinam (32)

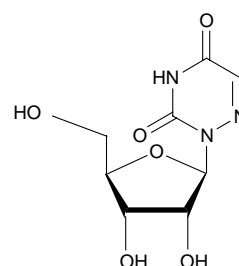
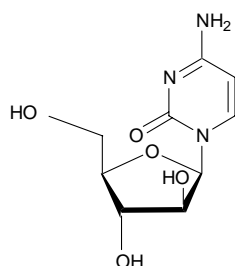
-cillinam see **-cillin**

-cilpine see **-pine**

-cisteine see **-steine**

-citabine USAN
nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives

L.4.0.0



(a) ancitabine (36), capecitabine (72), decitabine (61), elvucitabine (89), enocitabine (46), fiacitabine (59), flurocitabine (38), galocitabine (65), gemcitabine (62), ibacitabine (57), tezacitabine (84), torcitabine (87), troxacitabine (81), valtorcitabine (90), zalcitabine (66)

(b) cytarabine (14), azacitidine (40)

-clone **hypnotic tranquillizers**

A.2.2.0

(a) barbexaclone (16), eszopiclone (87), pagoclone (74), pazinaclone (70), suproclone (46), suriclone (43), suproclone (46), zopiclone (39)

(b) gestaclone (23), pimeclone (20)

-cog blood coagulation factors

I.2.0.0

(-)*eptacog* blood coagulation VII: eptacog alfa (activated) (72)

(-)*octocog* blood factor VIII: moroctocog alfa (72), octocog alfa (73)

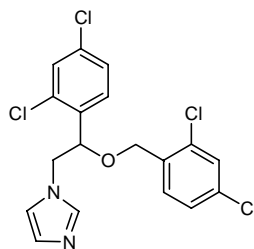
(-)*nonacog* blood factor IX: nonacog alfa (77)

related: drotrecogin alfa (85), tifacogin (78), taneptacogin (90)

BAN, USAN

-conazole (x) systemic antifungal agents, miconazole derivatives

S.4.0.0 (BAN: systemic antifungals of the miconazole group)
 (USAN: systemic antifungals (miconazole type))

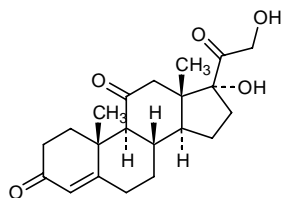


- (a) albaconazole (87), aliconazole (43), alteconazole (53), azaconazole (45), becliconazole (65), brolaconazole (58), butoconazole (40), ciskonazole (59), croconazole (55), (cyproconazole (ISO)), democonazole (42), (diniconazole (ISO C₁₇H₁₇Cl₂N₃O)), doconazole (37), eberconazole (64), econazole (27), enilconazole (44), ((etaconazole (ISO)), fenticonazole (44), fluconazole (54), fosfluconazole (83), ((furconazole (ISO/TC 81 N 872 C₁₅H₁₄Cl₂F₃N₃O₂)), (hexaconazole (ISO C₁₄H₁₇Cl₂N₃O)), isoconazole (30), itraconazole (50), ketoconazole (43), lanoconazole (66), luliconazole (86), miconazole (22), neticonazole (63), omoconazole (45), orconazole (40), oxiconazole (42), parconazole (39), (penconazole, (ISO)), posaconazole (82), (propiconazole (ISO)), ravuconazole (83), saperconazole (59), sertaconazole (56), sulconazole (38), (tebuconazole (ISO C₁₆H₂₂ClN₃O)), terconazole (45) (originally triaconazole), tioconazole (40), (uniconazole (ISO C₁₅H₁₈ClN₃O)), valconazole (40), voriconazole (73), zinoconazole (50), zoficonazole (43)
- (c) bifonazole (44)

BAN, USAN

cort (x) corticosteroids, except prednisolone derivatives

Q.3.0.0 (USAN: -cort-: cortisone derivatives)



- (a) amebucort (54), anecortave (80), butixocort (63), cicortonide (28), corticotropin (68), corticotropin-zinc hydroxide (68), cortisone (1), cortisuzol (30), cortivazol (23), cortodoxone (15), deflazacort (39) (previously azacort (38)), desoxycortone (4), fluazacort (30), fludrocortisone (6), fludroxycortide (12), fluocortin (31), formocortal (18), hydrocortamate (6), hydrocortisone (1), locicortolone dicibate (60), naflocort (50), nicocortonide (40), nivacortol (24), resocortol (74), tixocortol (38)
- (b) prednisolone derivatives: clocortolone (16), difluocortolone (18), fluocortolone (15), halocortolone (31)
- (c) aldosterone (6), algestone (22) (also progest. when used as algestone acetophenide), medrysone (16)

-coxib selective cyclo-oxygenase inhibitors

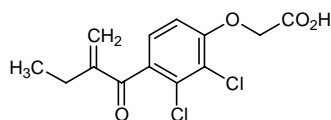
A.4.2.0

- (a) celecoxib (80), cimicoxib (89), deracoxib (80), etoricoxib (84), firocoxib (89), lumiracoxib (87), parecoxib (80), rofecoxib (80), tilmacoxib (84), valdecoxib (80)

USAN

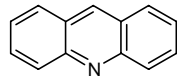
-crinat diuretics, etacrynic acid derivatives

N.1.2.2 (USAN: diuretics (ethacrynic acid derivatives))



- (a) brocrinat (51), sulicrinat (52)
- (c) etacrynic acid (14), furacrinic acid (29), indacrinone (51), tienilic acid (25)

USAN

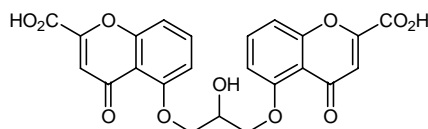
-crine (d) acridine derivatives

- (a) antineoplastics: amsacrine (44), nitracrine (35)
anthelmintics; antimalarials: floxacrine (34), mepacrine (4)
antidepressants: dimetacrine (19), monometacrine (19)
antiparkinsonian: botiacrine (38)
acetylcholinesterase inhibitors: ipidacrine (73), suronacrine (61), tacrine (8), velnacrine (61)
- (c) acridorex (21), acriflavinium chloride (1), acrisorcine (13), aminoacridine (1), ethacridine (1), proflavine (1)

USAN

-cromil antiallergics, cromoglicic acid derivatives

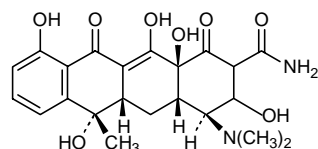
K.0.0.0 (USAN: antiallergics (cromoglicic acid type))



- (a) ambicromil (48) (replacement of probicromil (46)), isocromil (39), minocromil (50), nedocromil (50), proxicromil (39), terbucromil (38), texacromil (58)
- (c) cromitrile (46), cromoglicate lisetil (72), cromoglicic acid (18)

-curium see -ium

BAN, USAN

-cycline (d) antibiotics, tetracycline derivativesS.6.3.0 (BAN: antibiotics of the tetracycline group)
(USAN: antibiotics tetracycline derivatives)

- (a) amicycline (14), apicycline (17), cetocycline (39), chlortetracycline (4), clomocycline (16), colimecycline (33), demeclocycline (25), demecycline (14), doxycycline (16), etamocycline (18), guamecycline (22), lymecycline (14), meclocycline (14), meglucycline (22), metacycline (12), minocycline (14), nitrocycline (14), oxytetracycline (1),

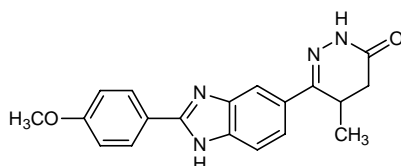
pecocycline (15), penimepicycline (16), penimocycline (22), pipacycline (12), rolitetracycline (11), sancycline (15), tetracycline (4), tigecycline (86)

related: carubicin (40), daunorubicin (20), detorubicin (41), doxorubicin (25), zorubicin (39)

USAN

-dan cardiac stimulants, pimobendan derivatives

H.1.1.0.0



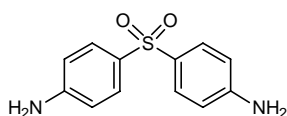
(a) adibendan (57), bemorodan (61), imazodan (55), indolidan (57), levosimendan (68), meribendan (62), pimobendan (46), prinoxodan (64), senazodan (85), simendan (66)

(b) nitrodan (15), tyromedan (15)

USAN

-dapsone antimycobacterials, diaminodiphenylsulfone derivatives (14th Report, 1964)

S.5.2.0 (USAN: antimycobacterial diaminodiphenylsulfone derivatives)



(a) acedapsone (22), amidapsone (28), dapsone (23)

-decakin see -kin

-dermin see -ermin

USAN

-dil vasodilators (18th Report, 1968)

F.2.0.0

F.2.1./2.0 (USAN: -dil; dil-; or -dil-: vasodilators (undefined group))

F.2.0.0

(a) alprostadi (39), aviptadi (78), belfosdil (61), benfurodil hemisuccinate (16), biclodil (52), buflomedil (33), burodil (26), carprazidil (45), cetiedil (27), cinopaxadil (50), dopropidil (59), eliprodil (66), fenoxedil (27), flosatidil (64), fostedil (51), fronepidil (59), ifenprodil (27), levosemotiadil (72), manozodil (47), mefenidil (48), minoxidil (25), naftopidil (52),

naminidil (87), nesapidil (52), perfomedil (60), pinacidil (46), piribedil (23), pitenodil (37), podilfen (22), stevaladil (34), suloctidil (30), tipropidil (44), urapidil (27), viquidil (25)

(c) dilmefone (33)

F.2.1.0

(a) coronary vasodilators: bepridil (30), bumepidil (44), ecipramidil (40), fendiline (24), fenetradil (30), floredil (28), hexadiline (13), ipramidil (51), mepramidil (27), metrifudil (23), nicorandil (44), pirozadil (33), pretiadil (27), razi-nodil (38), semotiadil (64), sinitrodiol (74), terodiline (16), tixadil (18), trapidil (29)

(c) dilazep (22), diltiazem (30)

-dilol carvedilol (50), dioxadilol (53), dramedilol (57), flavodilol (48), mindodilol (52), nipradilol (50) (previously nipradolol), oberadilol (77), parodilol (57), prizidilol (44), tribendilol (54)

(b) diloxanide (8) (amebicide), methdilazine (10) (antihistaminic), phenobutiodil (6) (contrast medium), prodilidine (12) (analgesic)

-pendyl cloxypendyl (15), isothipendyl (6), oxypendyl (13), prothipendyl (6)

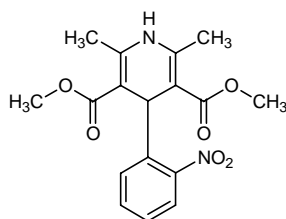
-dyl bisacodyl (13) (lax.), bunamiodyl (10), iofendylate (12), trihexyphenidyl (1) (antiparksonian)

-dilol see **-dil**

BAN, USAN

-dipine (x) **calcium channel blockers, nifedipine derivatives**

F.2.1.0 (BAN: calcium ion channel antagonists)
(USAN: phenylpyridine vasodilators (nifedipine type))



(a) amlodipine (53), aranidipine (69), azelnidipine (69), barnidipine (64), benidipine (58), cilnidipine (66), clevidipine (75), cronidipine (61), darodipine (51) (replaces dazodipine (49)), efonidipine (66), elgodipine (61), felodipine (44), flordipine (48), furnidipine (67), iganidipine (70), isradipine (55), lacidipine (57), lemildipine (69), lercanidipine (69) (previously masnidipine), levniguldipine (67), manidipine (59), mesudipine (40), nifedipine (27), niguldipine (60), niludipine (38), nilvadipine (52), nimodipine (40), nisoldipine (42), nitrendipine (42), olradipine (69), oxodipine (52),

palonidipine (64), pranidipine (66), riodipine (51), sagandipine (64), sornidipine (58), teludipine (64) (previously taludipine (61))

- (b) budipine (36) (central stimulant, antidepressant and antiparkinsonian), prodipine (29) (central stimulant antiparkinsonian)

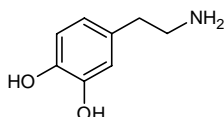
-dismase **enzymes with superoxide dismutase activity, see -ase item V**

-distim **see -stim**

-dodekin **see -kin**

-dopa **dopamine receptor agonists, dopamine derivatives, used as antiparkinsonism/ prolactin inhibitors**

E.1.1.1.0



- (a) carbidopa (37), ciladopa (52), dopamantine (31), droxidopa (57), etilevodopa (80), fluorodopa (¹⁸F) (64), levodopa (21), melevodopa (83)

-opamine **dopaminergic agents dopamine derivatives used as cardiac stimulant/ antihypertensives/diuretics**

- (a) butopamine (43), cliropamine (59), denopamine (50), dopamine (18), fosopamine (69), ibopamine (43), octopamine (32), oxidopamine (37) (glaucoma), ractopamine (54) (1 of 4 isomers of butopamine)

- (b) tiopropamine (36) (gastric and duodenal ulcers), tolpropamine (13) (antihistaminic)

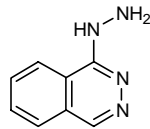
- (c) dobutamine (29), docarpamine (59), dopexamine (50), fenoldopam (53), levdobutamine (65), methyldopa (12) (alpha-2 adrenoreceptor agonist, cardiostimulant), zelandopam (84)

-dox **see -ox/-alox**

USAN

-dralazine antihypertensives, hydrazinephthalazine derivatives

H.3.0.0 (USAN: antihypertensives (hydrazine-phthalazines))



- (a) budralazine (33), cadralazine (41), dihydralazine (4), endralazine (39), hydralazine (1), mopidralazine (52), oxdralazine (38), picodralazine (18), pildralazine (48), todralazine (26)

-drine sympathomimetics (16th Report, 1966)

E.4.0.0

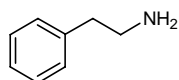
- (a) alifedrine (49), butidrine (16), cafedrine (14), cinnamedrine (19), corbadrine (1), dioxethedrin (6), dioxifedrine (41), etafedrine (14), meluadrine (78), methoxyphedrine (6), midodrine (27), norbudrine (17), oxyfedrine (16), pholedrine (1), pseudoephedrine (11), racephedrine (66), ritodrine (22), theophylline ephedrine (14), tinofedrine (32), trecadrine (53)

not phenethylamine derivatives: levopropylhexedrine (37), octodrine (19), propylhexedrine (6)

- (b) bufenadrine (13) (antiemetic) related chemically, chlormerodrin (4) (diuretic), chlormerodrin (197 Hg) (24), dieldrin (10) (insecticide), orphenadrine (8) (spasmolytic)

-frine sympathomimetic, phenethyl derivatives

E.4.0.0



- (a) amidefrine mesilate (15), berefrine (68), ciclafrine (33), dimetofrine (27), dipivefrine (39), epinephrine (16), etilefrine (18), etilefrine pivalate (50), gepefrine (38), norepinephrine (45), norfenefrine (16), oxilofrine (62), phenylephrine (1), pivenfrine (42), racepinefrine (41)

USAN

-dronic acid calcium metabolism regulator, pharmaceutical aid

N.8.0.0

U.4.0.0 (USAN: -dronate: calcium metabolism regulators)

- (a) alendronic acid (61), butedronic acid (59), clodronic acid (37), etidronic acid (22), ibandronic acid (71), incadronic acid (70), lidadronic acid (84), medronic acid (39), minodronic acid (78), neridronic acid (61), olpadronic acid (71), oxidronic acid (42),

pamidronic acid (59), piridronic acid (58), risedronic acid (62), tiludronic acid (60), zoledronic acid (71)

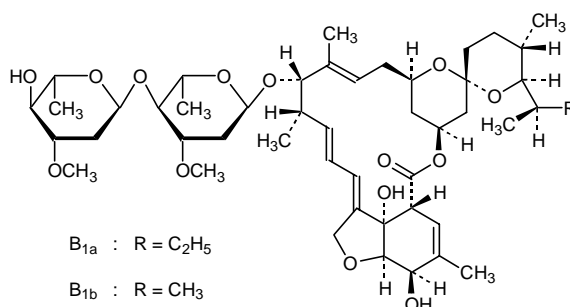
-dutant **see -tant**

-dyl **see -dil**

-ectin **antiparasitics, ivermectin derivatives**

USAN

S.3.0.0



(a) abamectin (53), dimadectin (73), doramectin (63), eprinomectin (73), fuladectin (71), ivermectin (44), latidectin (88), moxidectin (61), nemadectin (60), selamectin (81)

-elestat **see -stat**

-elvekin **see -kin**

-emcinal **erythromycin derivatives lacking antibiotic activity, motilin agonists**

J.0.0.0

(a) alemcinal (84), idremcinal (81), mitemcinal (86)

-entan **endothelin receptor antagonists**

USAN

F.2.0.0

(a) ambrisentan (85), atrasentan (83), bosentan (70), clazosentan (90), darusentan (82), edonentan (86), enrasentan (80), fandosentan (87), feloprentan (85), nebentan (90), sitaxentan (83), tezosentan (81)

(-)eptacog **see -cog**

USAN

erg **ergot alkaloid derivatives**

F.4.0.0

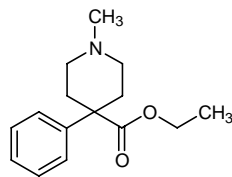
C.7.0.0 (USAN: -erg-: ergot alkaloid derivatives)

- (a) acetergamine (18), amesergide (67), brazergoline (37), bromerguride (51), cabergoline (54), cianergoline (47), delergotril (42), dihydroergotamine (16), disulergine (45), dosergoside (54), ergometrine (4), ergotamine (4), etisulergine (47), lergotril (32), lysergide (8), mergocriptine (54), mesulergine (47), metergoline (18), metergotamine (29), methylergometrine (1), methysergide (11), nicergoline (26), pergolide (41), propisergide (35), proterguride (50), romergoline (66), sergolexole (60), terguride (50), tiomergine (42), voxergolide (61)
- (b) ergocalciferol (13)

USAN

-eridine **analgesics, pethidine derivatives (14th Report, 1964)**

A.4.1.0 (USAN: analgesics (meperidine group))



- (a) anileridine (5), carperidine (11), etoxeridine (6), morpheridine (6), oxpheneridine (5), pheneridine (5), phenoperidine (11), properidine (5), sameridine (68), trimeperidine (6)
- (b) diaveridine (18) (cocciostat.), eseridine (53), nexeridine (34) (somewhat related)
- (c) benzethidine (9), butoxylate (14), diphenoxylate (10), fetoxilate (21), furethidine (9), hydroxypethidine (5), pethidine (4), piminodine (9)

USAN

-ermin **growth factors**

U.0.0.0 (USAN: growth factors)

-bermin **vascular endothelial growth factors**

- (a) telbermin (85)

-dermin **epidermal growth factors**

- (a) murodermin (63)

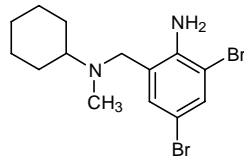
<i>-fermin</i>	fibrinoblast growth factors	
(a)	ersofermin (66), palifermin (86), repifermin (82), trafermin (74)	
<i>-filermin</i>	leukemia-inhibiting factor	
(a)	emfilermin (82)	
<i>-nermin</i>	tumour necrosis factor	
(a)	ardenermin (88), plusonermin (73), sonermin (68), tasonermin (76)	
<i>-plermin</i>	platelet-derived growth factor	
(a)	becaplermin (74)	
<i>-sermin</i>	insulin-like growth factors	
(a)	mecasermin (66)	
<i>-termin</i>	transforming growth factor	
	avotermin (77), cetermin (74), dibotermin alfa (89), eptotermin alfa (89), liatermin (81)	
		BAN, USAN
estr	estrogens	
Q.2.1.1.0	(USAN: estr-; or -estr-: estrogens)	
(a)	almestrone (24), benzenestrol (1), broparestrol (8), cloxestradiol (12), dienestrol (1), diethylstilbestrol (4), epiestriol (12), epimestrol (22), (eptamestrol/etamestrol (49) deleted), estradiol (4), estradiol benzoate (4), estradiol undecylate (16), estradiol valerate (35), estramustine (24), estrapronicate (34), estrazinol (16), estriol succinate (14), estrofurate (25), estrone (4), ethinylestradiol (1), fenestrel (18), fosfestrol (15), fulvestrant (78), furostilbestrol (1), hexestrol (1), mestranol (12), methallenestril (6), methestrol (1), moxestrol (24), nilestriol (32), orestrate (17), polyestradiol phosphate (36), promestriene (31), quinestradol (15), quineestrol (14)	
(b)	alfatradiol (84) (topical), allylestrenol (10) (progest.), ethylestrenol (13) (anabol.), lynestrenol (13) (progest.)	
<i>-gestr-:</i>	edogestrone (22), levonorgestrel (30), megestrol (13), melengestrol (13), norgestrel (17), norgestrienone (18), pentagestrone (14), quingestrone (13)	
(c)	chlorotrianisene (6), clomifene (12), enclomifene (33), zuclomifene (33) (antiestrogens)	
-etanide	see -anide	

-ethidine **see -eridine**

-exakin **see -kin**

-exine **mucoytic, bromhexine derivatives**

K.0.0.0



- (a) adamexine (36), bromhexine (20), brovanexine (31), cistinexine (54), dembexine (56), neltexine (62), oxabrexine (40)
- (b) enefexine (54) (antidepressant), gamfexine (17) (antidepressant)
- (c) ambroxol (32) (dembrexol (50): replaced by dembexine (56))
-

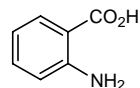
-fenamate **see -fenamic acid**

USAN

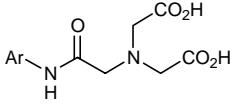
-fenamic acid **anti-inflammatory, anthranilic acid derivatives**

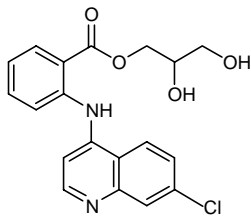
-fenamate **"fenamic acid" derivatives**

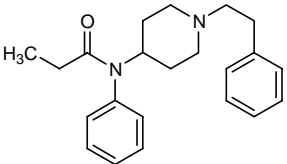
A.4.2.0



- (a) clofenamic acid (13), enfenamic acid (45), flufenamic acid (13), meclofenamic acid (17), mefenamic acid (13), tolfenamic acid (24)
- colfenamate (29), etofenamate (29), pefenamate (36), terofenamate (32), ufenamate (50)
- (b) clantifen (24), oxyfenamate (13)
- (c) phonetically close: clofenamide (13), diclofenamide (13) (N.1.1.0)
flutiazin (22)

		USAN
-fenin	diagnostic aids; (phenylcarbamoyl)methyl iminodiacetic acid derivatives	
U.1.0.0		
(a)	arclofenin (52), butilfenin (41), disofenin (43), etifenin (43), galtifenin (59), lidofenin (39), mebrofenin (47)	

		USAN
-fenine phenine	analgesics, glafenine derivatives (subgroup of fenamic acid group)	
A.4.3.0		
(a)	antrafenine (35), floctafenine (24), florifenine (50), glafenine (15), nicafenine (40)	
(b)	spasmolytic diphenylacetates: adiphenine (1), drofenine (26)	
	<u>other</u> : bufenine (8) (vasodil.), cinfenine (27) (antidepressant)	

		USAN
-fentanil	narcotic analgesics, fentanyl derivatives	
A.4.1.0		
(a)	alfentanil (43), brifentanil (62), carfentanil (39), fentanyl (14), lofentanil (43), mirfentanil (64), ofentanil (61), remifentanil (67), sufentanil (36), trefentanil (67)	

-fermin **see -ermin**

-fentrine **inhibitors of phosphodiesterases**

K.0.0.0

(a) benafentrine (44), pumafentrine (86), tolafentrine (70)

-fiban **fibrinogen receptor antagonists (glycoprotein IIb/IIIa receptor antagonists)**

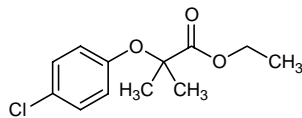
I.2.0.0

carafiban (78), elarofiban (83), fradafiban (72), gantofiban (80), lamifiban (72), lefradafiban (75), lotrafiban (78), orbofiban (75), roxifiban (77), sibrafiban (77), tirofiban (73), xemilofiban (74)

 BAN, USAN

-fibrate (x) **clofibrate derivatives**

H.4.0.0 (BAN: substances of the clofibrate group)
 (USAN: clofibrate type compounds)



(a) bezafibrate (35), biclofibrate (28), binifibrate (44), ciprofibrate (36), clinofibrate (39), dulofibrate (43), etofibrate (31), fenirofibrate (49), fenofibrate (35), lifibrate (30), nicofibrate (31), picafibrate (35), ponfibrate (37), ronifibrate (55), salafibrate (41), serfibrate (34), simfibrate (22), sitofibrate (32), tiafibrate (33), timofibrate (40), tocofibrate (33), urefibrate (37), xantifibrate (31)

clofibrinic acid (20), clofibrate (13), aluminium clofibrate (31), calcium clofibrate (34), cinnarizine clofibrate (38), etofylline clofibrate (38), magnesium clofibrate (31)

clofibrinide (28), plafibrinide (39)

related: beclobrate (35), eniclobrate (39), gemfibrozil (34), halofenate (20), lifibrol (62), metibrinide (53), terbufibrol (35), tibrinic acid (33), (fibrafylline (43) deleted)

(b) brometric acid (25) (prophylaxis of migraine), fibracillin (30) (antibiotic)

(c) nafenopin (24), treloxinate (25)

-filermin **see -ermin**

-flapon **5-lipoxygenase-activating protein (FLAP) inhibitor**

K.0.0.0

J.0.0.0

quiflapon (72)

-flurane **halogenated compounds used as general inhalation anaesthetics**

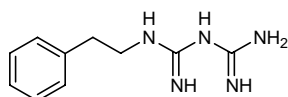
A.1.1.0

- (a) aliflurane (36), cryofluorane (6), desflurane (62), enflurane (25), isoflurane (28), methoxyflurane (11), norflurane (20), roflurane (12), sevoflurane (25), teflurane (12)
- (b) apaflurane (73)
- (c) halothane (6)

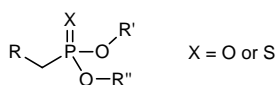
 USAN

-formin (d) **antihyperglycaemics, phenformin derivatives**

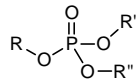
M.5.0.0 (USAN: oral hypoglycemics (phenformin type))



- (a) benfosformin (29), buformin (17), etoformin (34), metformin (21), phenformin (10), tiformin (22)

-fos **insecticides, anthelmintics, pesticides etc., phosphorous derivatives**
(-vos)
S.3.1.0
Y.0.0.01. organophosphorous derivatives:

- (a) vet. insecticides:
quintofos (25)
- (b) toldimfos (23) (vet. phosphorous source)
- (c) vet. insecticides and anthelmintics:
metrifonate (16)
anthelmintic: butonate (30)

2. phosphates:(a) vet. insecticides:

clofenvinfos (23)

vet. anthelmintics:

bromofenofos (43), dichlorvos (28), naftalofos (16)

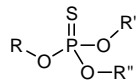
anthelmintics:

vincofos (28)

(b) triclofos (13) (hypnotic, sedative)

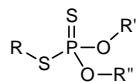
(c) vet. anthelmintics:

fospirate (21), haloxon (16)

3. phosphorothioates:vet. insecticides:

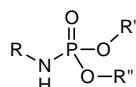
(a) bromofos (25), coumafos (16), fenclofos (23), temefos (31)

(c) dimpylate (16), phoxim (20) (vet. insecticide and anthelmintic), pyrimitate (16)

4. phosphorodithioates:

(a) benoxafos (22) (vet. pesticide)

(c) carbofenotion (23) (vet. insecticide), dioxation (16) (vet. insecticide), (malathion (46) (deleted!))

5. phosphoramidates

crufomate (16), uredofos (37)

anthelminthic:

imcarbofos (44)

-fos- or fos-

various pharmacological categories belonging to fos (other than those above):

-fos-

alafosfalin (41), amifostine (44), belfosdil (61), benfosformin (29), butafosfan (38), cifostodine (50), creatinolfosfate (20), dexfosfoserine (68), ferpifosate sodium (69), fosmenic acid (49), fosopamine (69), fosquidone (64), furifosmin (70), monophosphothiamine (8), sodium picofosfate (37), sparfosic acid (46), technetium (^{99m}Tc), tetrofosmin (66), trifosmin (74)

-fosfamide alkylating agents of the cyclophosphamide group

cyclophosphamide (10), defosfamide (12), glufosfamide (77), ifosfamide (23), mafosfamide (51), perfosfamide (66), sufosfamide (36), trofosfamide (23)

-fosine cytostatic

edelfosine (59), fostriecin (55), ilmofosine (56), miltefosine (61), perifosine (78)

fos-

fosarilate (53), fosazepam (27), foscarnet sodium (42), foscolic acid (12), fosenazide (46), fosfestrol (15), fosfocreatinine (50), fosfomycin (25), fosfonet sodium (35), fosfosal (37), fosfructose (81), fosmidomycin (46), fostedil (51)

-fovir

see vir

-fradil

calcium channel blockers acting as vasodilators

F.2.1.0

mibefradil (72)

-frine

see -drine

-fungin

antifungal antibiotics (18th Report, 1968)

USAN

S.6.0.0

(USAN: antifungal antibiotics (undefined group))

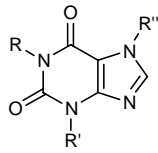
S.4.3.0

- (a) abafungin (74), anidulafungin (81), basifungin (72), caspofungin (80), cilofungin (60), fusafungine (15), kalafungin (20), micafungin (84), nifungin (24), oxifungin (40), sinefungin (39), triafungin (40)

USAN

-fylline **N-methylated xanthine derivatives**

B.1.0.0



- (a) acefylline clofibrol (44), acefylline piperazine (14), albifylline (66), aminophylline (4), apaxifylline (71), arofylline (75), bamifylline (15), cipamfylline (71), denbufylline (55), dimabefylline (19), diniprofylline (18), diprophylline (1), doxofylline (47), enprofylline (44), etamiphylline (6), etofylline (14), etofylline clofibrate (38), fibrafylline (43) (deleted), flufylline (48), fluprofylline (50), furafylline (48), guaifylline (16), isbufylline (62), istradefylline (89), laprafylline (60), lisofylline (72), lomifylline (37), mercurophylline (1), metescufylline (15), mexafylline (48), midaxifylline (79), naxifylline (86), nestifylline (64), pentifylline (29), pentoxifylline (29), perbufylline (58), pimefylline (21), propentofylline (46), proxyphylline (10), pyridofylline (14), spirofylline (58), stacofylline (73), tazifylline (52), theophylline ephedrine (14), torbafylline (56), triclofylline (19), verofylline (43), visnafylline (24), choline theophyllinate (8), fenetylline (16)
- (c) cafedrine (14), dimenhydrinate (1), dimethazan (8), meralluride (1), mercumatilin sodium (4), piprinhydrinate (8), promethazine teoclate (10), protheobromine (14), theodrenaline (14), xantifibrate (31), xantinol nicotinate (16)

radicals and groups: teprosilate (29)

USAN

gab **gabamimetic agents**

E.0.0.0

- (a) fengabine (53), gabapentin (46), gaboxadol (48) (used as analgesic), pivagabine (66), pregabalin (78), progabide (43) (used as antiepileptic), retigabine (76), tiagabine (63), tolgabide (53), vigabatrin (52) (anticonvulsants)
- (b) gabexate (35) (proteolytic)

USAN

gado- **diagnostic agents, gadolinium derivatives**

U.0.0.0

- (a) gadobenic acid (64), gadobutrol (66), gadocoletic acid (85), gadodiamide (63), gadomelitol (85), gadopenamide (60), gadopentetic acid (50), gadoteric acid (59), gadoversetamide (71), gadoxetic acid (71)

		USAN
-gatan	thrombin inhibitor, antithrombotic agent	
I.2.0.0		
(a)	dabigatran (83), dabigatran etexilate (87), efegatran (71), inogatran (72), melagatran (74), napsagatran (72), ximelagatran (84)	
(c)	argatroban (57)	
		BAN, USAN
gest (x)	steroids, progestogens	
Q.2.2.0	(USAN: -gest-: progestins)	
(a)	altrenogest (46), anagestone (16), cingestol (20), clogestone (21), clomegestone (20), demegestone (24), desogestrel (38), dextrnorgestrel (30), dienogest (49), dydrogesterone (12), edogestron (22), etonogestrel (65), flugestone (16), gestaclone (23), gestadienol (22), gestodene (37), gestonorone caproate (16), gestrinone (39), haloprogestone (11), hydroxyprogesterone (8), levonorgestrel (33) (previously dextrnorgestrel), medrogestone (15), medroxyprogesterone (10), medoxyprogesterone (10), medrogestone (15), megestrol (13), melengestrol (13), metogest (33), norelgestromin (83), norgesterone (14), norgestimate (35), norgestomet (32), norgestrel (17), norgestrienone (18), oxogestone (19), pentagestrone (14), progesterone (4), proligestone (28), promegestone (38), quingestanol (15), quingestron (13), tigestol (20), tosagestin (86), trengestone (22), trimegestone (66)	
(b)	algestone (22) (glucocorticoid)	
(c)	allylestrenol (10), chlormadinone (12), cismadinone (12), delmadinone (23), dimethisterone (8), ethisterone (4), ethynerone (17), etynodiol (13), hydromadinone (12), lynestrenol (13), metynodiol (27), norethisterone (6), noretynodrel (13), norvinisterone (10)	
	clometerone (15) (antiestrogen), dimepregnen (24) (antiestrogen)	
-gestr-	see estr	
		USAN
-giline	MAO-inhibitors type B	
C.3.1.0		
(a)	clorgiline (23), mofegiline (69), pargiline (13), rasagiline (70), selegiline (39)	

-gillin **antibiotics produced by *Aspergillus* strains (16th Report, 1966)**

S.6.0.0

- (a) fumagillin (1), mitogillin (17)
- (c) mitosper (24), nifungin (24)

BAN, USAN

gli (x) **antihyperglycaemics**
(previously gly-)

M.5.2./3.0 (BAN: sulphonamide hypoglycaemics)
 (USAN: gli-: oral hypoglycemics (glipizide type))

- (a) gliamilide (33), glibenclamide (18), glibornuride (22), glibutimine (31), glicaramide (28), glicetanile (37), gliclazide (25), (deleted: glidanile (23)), glicondamide (44), glidazamide (24), gliflumide (33), glimepiride (53), glipalamide (62), (glipentide (27) replaced by glisentide (58)), glipizide (27), gliquidone (28), glisamuride (45), glisentide (58) (previously glipentide), glisindamide (43), glisolamide (43), glisoxepide (24), glybutiazol (8), glybuzole (15), glyclopyramide (17), glycyclamide (12), glyhexamide (15), glymidine sodium (15), glyoctamide (14), glyparamide (USAN only), glypinamide (13), glyprothiazol (8), glysobuzole (12)
- (b) glycerol (4), glycobarsol (1), glycopyrronium bromide (12)
- (c) 1.: acetohexamide (12), butadiazamide (10), chlorpropamide (8), heptolamide (12), metahexamide (10), thiohexamide (12), tolazamide (12), tolbutamide (6), tolpentamide (12), tolypyrramide (13)
2. other than sulfonamide derivatives: camiglibose (67), deriglidole (66), emiglitate (55), ingliforib (85), isaglidole (61), linoglriride (48), meglitinide (34), midaglizole (57), miglitol (55), mitiglinide (78), naglivan (65), nateglinide (77), pirogliride (40), repaglinide (65), tibeglisene (64), vildagliptin (90), voglibose (65)
3. peptide: seglitide (57)

-glitazar **peroxisome proliferator activating receptor (PPAR) agonists**

M.5.2.0

- (a) farglitazar (84), muroglitazar (90), oxeglitazar (88), ragaglitazar (85), reglitazar (87), tesaglitazar (85)

-glitazone **peroxisome proliferator activating receptor (PPAR) agonists, thiazolidinedione derivatives**

M.5.2.0

- (a) ciglitazone (50), balaglitazone (84), darglitazone (69), englitazone (64), netoglitazone (85), pioglitazone (60), rivoglitazone (87), rosiglitazone (78), troglitazone (69)

-glitazar **see gli**

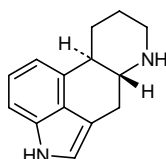
-glitazone **see gli**

-glumide **cholecystokinine antagonists, antiulcer, anxiolytic agent**

- (a) proglumide (16), lorglumide (56), tomoglumide (56), loxiglumide (57), dexloxiglumide (65), spiroglumide (70), amiglumide (85), itriglumide (82)

-golide **dopamine receptor agonists, ergoline derivatives**

E.1.1.0



- (a) adrogolide (82), naxagolide (60), pergolide (41), quinagolide (62), voxergolide (61)
- (c) rotigotine (83)

-gosivir **see vir**

-gramostim **see -stim**

-grastim **see -stim**

USAN

**-grel-
-grel** **platelet aggregation inhibitors**

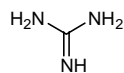
I.2.1.0 (USAN: platelet antiaggregants (undefined group))

- (a) anagrelide (42), camonagrel (61), cangrelor (82), clopidogrel (57), dazmegrel (51), furegrelate (53), isbogrel (59), itazigrel (56), midazogrel (53), nafagrel (64), nicogrelate (48), oxagrelate (47), ozagrel (55), pamicogrel (70), pirmagrel (53), ridogrel (59), rolafagrel (65), samixogrel (72), sarpogrelate (63), satigrel (67), sunagrel (52), terbogrel (75), trifenagrel (53)

USAN

guan- **antihypertensives, guanidine derivatives**

H.3.0.0 (USAN: anti-hypertensive substances (guanidine type))



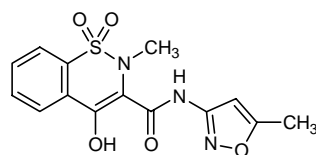
- (a) guanabenz (26), guanacline (16), guanadrel (20), guanazodine (27), guancidine (18), guanclofine (36), guanethidine (11), guanfacine (35), guanisoquine (15), guanoclor (15), guanoctine (16), guanoxan (15), guanoxabenz (31), guanoxyfen (16), guabenzan (32)
- (c) guabenzan (32)

-ibine **see -ribine**

USAN

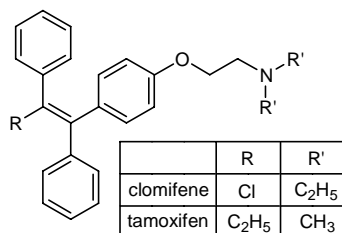
-icam **anti-inflammatory, isoxicam derivatives**

A.4.2.0 (USAN: anti-inflammatory agents (isoxicam group))



- (a) ampiroxicam (56), droxicam (52), enolicam (45), isoxicam (30), lornoxicam (59), meloxicam (52), piroxicam (32), sudoxicam (27), tenoxicam (44), tesicam (25)

USAN

-ifene **antiestrogens, clomifene and tamoxifen derivatives**(Q.2.1.0
L.6.0.0)

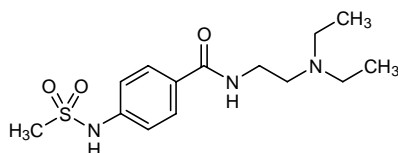
- (a) acolbifene (86), arzoxifene (80), bazedoxifene (86), clomifene (12), droloxifene (53), enclomifene (33), fispemifene (89), idoxifene (68), lasofoxifene (81), levormeloxifene (73), miproxifene (74), nitromifene (33), ormeloxifene (69), ospemifene (85), panomifene (58), pipendoxifene (84), raloxifene (54), tamoxifen (28), tesmilifene (81), toremifene (53), trioxifene (41), zindoxifene (54), zuclomifene (33), clomifenoxide (54)
- (b) dextropropoxyphene (7), levopropoxyphene (7), suloxifen (30) (bronchodilator)
- (c) nafoxidine (16)

-igetide **see -tide**

USAN

-ilide **class III antiarrhythmics, sematilide derivatives**

H.2.0.0



- (a) ambasilide (59), artilide (67), azimilide (72), dofetilide (65), ersentilide (72), ibutilide (63), ipazilide (62), risotilide (62), sematilide (58), trecetilide (79)
- (b) bromacrylide (13), ftaxilide (32), gliamilide (33)

USAN

imex (d) **immunostimulants**

S.7.0.0

- (a) azimexon (40), forfenimex (55), imexon (37), roquinimex (53), ubenimex (56)

-imibe	antihyperlipidaemics, acyl CoA:cholesterol acyltransferase (ACAT) inhibitors	
M.3.0.0		
(a)	avasimibe (80), eflucimibe (84), eldacimibe (76), ezetimibe (83), lecimibide (70), octimibate (52), pactamibe (89)	
		USAN
-imod	immunomodulators, both stimulant/suppressive and stimulant	
S.7.0.0		
(a)	atiprimod (75), cridanimod (83), defoslimod (79), doramapimod (88), esonarimod (79), glaspimod (74), iguratimod (86), imiquimod (66), ivarimod (60), laquinimod (85), pidotimod (63), resiquimod (82), semapimod (89), susalimod (73), tiprotimod (57)	
		USAN
-imus	immunosuppressants (other than antineoplastics)	
S.7.0.0		
(a)	abetimus (81), anisperimus (82), everolimus (82), guspereimus (68), iguratimod (86), laflunimus (70), laquinimod (85), napirimus (60), pimecrolimus (81), sirolimus (69), tacrolimus (66), tresperimus (75)	
-ine (d)	alkaloids and organic bases	
(a)	1120 (24.04%) INNs ending in <i>-ine</i> in Lists 1-48 of Proposed INNs	
-inostat	see stat	
io- (x)	iodine-containing contrast media	BAN, USAN
U.1.1.0		
(a)	iobenzamic acid (14), iobitridol (68), iobutoic acid (20), iocarmic acid (22), iocetamic acid (18), iocanlidic acid (77), iodamide (15), iodecimol (51), iodetryl (1), iodixanol (53), iodophthalein sodium (1), iodoxamic acid (26), iofendylate (12), iofratol (67), ioglicic acid (33), iogluocol (41), ioglucomide (41), ioglundide (40), ioglycamic acid (15), iohexol (43), iolidonic acid (26), iolixanic acid (26), iomeglamic acid (26), iomeprol (54), iomorinic acid (37), iopamidol (40), iopanoic acid (1), iopentol (52), iophenoic acid (4), ioprocemic acid (39), iopromide (44), iopronic acid (28), iopydol (14), iopydone (14), iosarcol (54), iocefamic acid (14), ioseric acid (33), iosimenol (88), iosimide (50), iosulamide (39), iosumetic acid (33), iotalamic acid (13), iotasul (43), iotetric acid (37), iotranic acid (28), iotriside (60), iotrizoic acid (22), iotrolan (51), iotroxic acid (32), ioversol (56), ioxabrolic	

acid (53), ioxaglic acid (37), ioxilan (59), ioxitalamic acid (22), ioxotrizoic acid (33), iozomic acid (24)

- (c) adipiodone (4), bunamiodyl (10), dimethiodal sodium (1), diodone (1), ethyl cartrizoate (12), methiodal sodium (1), metrizamide (26), pheniodol sodium (1), phenobutiodil (6), propyl docetrizoate (10), propyliodone (1), sodium acetrizoate (4), sodium amidotrizoate (4), sodium diprotrizoate (6), sodium metrizoate (13), sodium tyropanoate (12)

iod-) **iodine-containing compounds other than contrast media**
-io-)

io(d)-/-io- **iodine-containing radiopharmaceuticals**

- (a) ethiodized oil (^{131}I) (24), iobenguane (^{131}I) (57), iodinated (^{125}I) human serum albumin (24), iodinated (^{131}I) human serum albumin (24), iodocetylic acid (^{123}I) (47), iodocholesterol (^{131}I) (39), iofetamine (^{123}I) (51), iolopride (^{123}I) (73), iomazenil (^{123}I) (66), iometin (^{125}I), iometin (^{131}I) (24), sodium iodide (^{125}I) (24), sodium iodide (^{131}I) (24), sodium iodohippurate (^{131}I) (24), sodium iotalamate (^{125}I) (24), sodium iotalamate (^{131}I) (24)
- (c) fibrinogen (^{125}I), macrosalb (^{131}I) (33), rose bengal (^{131}I) sodium (24), tolpovidone (^{131}I) (24)

USAN

-irudin **hirudin derivatives**

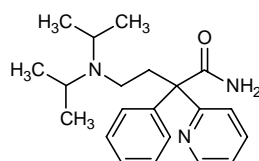
I.2.1.0

bivalirudin (72), desirudin (70), lepirudin (73), pegmusirudin (77)

USAN

-isomide **antiarrhythmics, disopyramide derivatives**

H.2.0.0



- (a) actisomide (60), bidisomide (63), pentisomide (59)
- (c) disopyramide (12)

BAN, USAN

-ium (x) quaternary ammonium compounds

(USAN: -ium or onium)

USAN

E.3.0.0 neuromuscular blocking agents with a flexible structure

(a) azamethonium bromide (1), decamethonium bromide (1), dicolonium iodide (25), dimecolonium iodide (14), fubrogonium iodide (18), hexamethonium bromide (1), mebezonium iodide (16), oxapropanium iodide (1), oxydipentonium chloride (1), pentamethonium bromide (1), pentolonium tartrate (4), prodeconium bromide (6), stilonium iodide (32), suxamethonium chloride (1), suxethonium chloride (1), tetrylammonium bromide (1), tiametonium iodide (15), trepirium iodide (25)

(c) gallamine triethiodide (1)

E.3.0.0 neuromuscular blocking agents with rigid structure

(USAN: -curium, also curonium; neuromuscular blocking agents; quaternary ammonium derivatives)

(a) alcuronium chloride (17), atracurium besilate (42), candocuronium iodide (70), cisatracurium besilate (73), dacuronium bromide (21), dimethyltubocurarium chloride (1), doxacurium chloride (58), fazadinium bromide (32), hexafluronium bromide (12), laudexium metilsulfate (4), mivacurium chloride (58), pancuronium bromide (19), pentacyonium chloride (6), phenactropinium chloride (8), pipecuronium bromide (69), piprocurarium iodide (11), rapacuronium bromide (78), rocuronium bromide (66), stercuronium iodide (21), thiazinanium metilsulfate (37), trimethidinium methosulfate (8), truxicurium iodide (22), truxipcurium iodide (22), vecuronium bromide (46)

(c) tubocurarine chloride (1)

E.1.0.0 cholinergic agents

(a) aclatonium napadisilate (44), ambenonium chloride (6), benzpyrinium bromide (1), carpronium chloride (23), demecarium bromide (10), furtrethonium iodide (1)

(c) acetylcholine chloride (4), charbacol (4), choline alfoscerate (29), choline chloride (4), choline gluconate (1), choline salicylate (15) (analgesic), choline theophyllinate (8) (smooth muscle relaxant), methacholine chloride (1), nitricholine perchlorate (6) (antihypertensive), distigmine bromide (16), ecothiopate iodide (6), neostigmine bromide (4), obidoxime chloride (16), pralidoxime iodide (10), pyridostigmine bromide (6)

E.2.0.0 anticholinergic agents

(a) benzilonium bromide (13), benzopyrroonium bromide (12), beperidium (57), bevonium metilsulfate (19), butropium bromide (30), ciclonium bromide (19), ciclotropium bromide (50), cimetrogium bromide (51), clidinium bromide (6), cyclopyrroonium bromide (12), dimetipirium bromide (37), diponium bromide (15), dotefonium bromide (24), droclidinium bromide (33), emepronium bromide (18), etipirium iodide (22), fenclexonium

metilsulfate (20), fempiverinium bromide (26), fentonium bromide (29), flutropium bromide (50), glycopyrronium bromide (12), heteronium bromide (14), hexasonium iodide (15), hexocyclium metilsulfate (6), hexopyrronium bromide (13), ipratropium bromide (31), methanthelinium bromide (1), methylbenactyziium bromide (34), metocinium iodide (26), nolinium bromide (37), otilonium bromide (38), oxapium iodide (26), oxitefonium bromide (18), oxitropium bromide (36), oxyphenonium bromide (1), oxypyrronium bromide (13), oxysonium iodide (15), pentapiperium metilsulfate (26), prifinium bromide (20), ritropirronium bromide (33), sintropium bromide (47), sultroponium (18), tematropium metilsulfate (64), tiemonium iodide (13), timepidium bromide (29), tiotropium bromide (67), tiquizium bromide (47), trantelinium bromide (24), trospium chloride (25), xentropium bromide (15)

- (c) atropine methonitrate (4), buzepide metiodide (14), chlorisondamine chloride (6), diphemanil metilsulfate (4), homatropine methylbromide (1), isopropramide iodide (8), mepenzolate bromide (10), octatropine methylbromide (10), parapenzolate bromide (14), pipenzolate bromide (6), poldine metilsulfate (11), propantheline bromide (1), propyromazine bromide (12), tridihexethyl iodide (6), tropenziline bromide (11), thihexinol methylbromide (1), tricyclamol chloride (4)

S.2.3.0 **surfactants used as antibacterials and antiseptics**

- (a) acriflavinium chloride (1), amantanium bromide (39), benzalko-nium chloride (1), benzethonium chloride (1), benzododecinium chloride (1), benzoxonium chloride (36), cefalonium (16), cefmepidium chloride (57), cetalkonium chloride (15), cethexonium chloride (36), cetrimonium bromide (1), cetylpyridinium chloride (1), chlorphenoctium amsonate (8), deditonium bromide (15), denatonium benzoate (15), dequalinium chloride (8), disiquonium chloride (55), dodeclonium bromide (16), dofamium chloride (21), fludazonium chloride (33), furazolium chloride (15), halopenium chloride (10), hedaquinium chloride (8), lapirium chloride (27), lauralkonium chloride (62), laurcetium bromide (70), laurolinium acetate (12), mecetronium etilsulfate (51), metalkonium chloride (60), methylbenzethonium chloride (1), methylrosanilinium chloride (1), methylthionium chloride (1), miripirium chloride (63), miristalkonium chloride (41), octafonium chloride (16), opratonium iodide (76), penoctionium bromide (20), pirralkonium bromide (19), polidronium chloride (67), polixetonium chloride (70), prolonium iodide (14), sanguinarium chloride (68), sepazonium chloride (34), tetradonium bromide (18), tibezonium iodide (32), tiodonium chloride (36), toliodium chloride (36), toloconium metilsulfate (17), tonzonium bromide (14), triclobisonium chloride (10)
- (c) domiphen bromide (23)

other agents

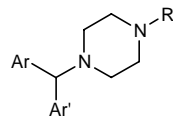
amezinium metilsulfate (36), amprolium chloride (16), azaspirium chloride (25), bephenium hydroxynaphthoate (11), bibenzonium bromide (12), bidimazium iodide (27), bretylium tosilate (10), butopyrammonium iodide (8), carcainium chloride (36), clofilium phosphate (42), datelliptium chloride (57), detajmium bitartrate (34), dibrospidium chloride (51), ditercalinium chloride (49), edrophonium chloride (4), elliptinium acetate (43), emilium tosilate (37), famiraprinium chloride (58), feniodium chloride (23), gallium (⁶⁷Ga) citrate (33), homidium bromide (36), isometamidium chloride (18), mefenidramium

metilsulfate (52), meldonium (86), mequitamium iodide (61), nolpitantium besilate (75), pinaverium bromide (32), pirdonium bromide (28), prajmalium bitartrate (23), pranolium chloride (32), pretamazium iodide (29), propagermanium (65), prospidium chloride (22), pyritidium bromide (16), pyrvinium chloride (6), quindonium bromide (14), quinuclium bromide (40), repagermanium (63), rimazolium metilsulfate (26), roxolinium metilsulfate (33), samarium (^{153}Sm) lexidronam (74), sevotropium mesilate (56), spirogermanium (43), stilbazium iodide (13), thenium closilate (12), tipetropium bromide (42), tolonium chloride (4), trazium esilate (54), trethinium tosilate (14), troxonium tosilate (13), troxypyrrolium tosilate (13)

- (c) alazanine triclofenate (13) (anthelminthic), colfosceril palmitate (64) (pulmonary surfactant), dithiazanine iodide (8) (anthel-minthic), hexadimethrine bromide (8) (heparin antagonist)

-curium (d) curare-like substances

-izine (-yzine) diphenylmethyl piperazine derivatives



- (a) antihistaminics: G.2.0.0: buclizine (4), cetirizine (51), chlorcyclizine (1), clocinizine (15), cyclizine (1), efletirizine (71), elbanizine (60), flotrenizine (48), levocetirizine (78), pibaxizine (62), trenizine (48)

homochlorcyclizine (10) (serotonin antagonist)

tranquillizers: etodroxizine (18), hydroxyzine (6)

various: benderizine (40) (antiarrhythmic), decloxizine (19) (respiratory insufficiency), ropizine (36) (anticonvulsant)

-rizine antihistaminics/cerebral (or peripheral) vasodilators

belarizine (36), buterizine (42), cinnarizine (11), dotarizine (50), flunarizine (22), lifarizine (66), tagorizine (72), tamolarizine (66), trelnarizine (62)

chemically related: pipoxizine (32) (respiratory insufficiency)

- (b) phenothiazine derivatives: chloracyzine (12) (vasodilator), fluacizine (25) (sedative), moracizine (25) (antiarrhythmic), tiracizine (62) (antiarrhythmic)

benzilate esters: benactyzine (6) (tranquillizer), benaprizine (26) (anti-parkinsonian)

phenylpiperazine: dimetholizine (10) (antiallergic), dropropizine (18)/levodropropizine (64) (antitussive)

antibiotic "cef": cefatrizine (34)

pyrazine derivatives: ampyzine (15) (central nervous stimulant), triampyzine (15) (anticholinergic)

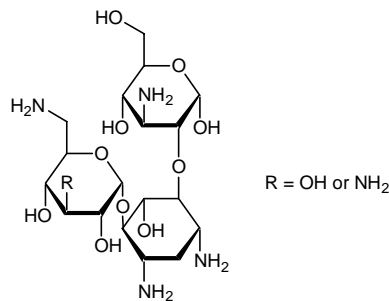
indoloquinolines (anticholinergic): metoquizine (17), toquizine (17)

(c) medibazine (16)

USAN

-kacin **antibiotics, kanamycin and bekanamycin derivatives (obtained from Streptomyces kanamyceticus)**

S.6.3.0 (USAN: antibiotics obtained from Streptomyces kanamyceticus (related to kanamycin))



(a) amikacin (30), arbekacin (56), butikacin (41), dibekacin (31), propikacin (43)

(c) bekanamycin (24), kanamycin (10)

other aminoglycoside antibiotics:

Strept. griseus: dihydrostreptomycin (1) (semisynthetic), streptomycin (1), streptoniazid (13) (semisynthetic)

Strept. tenebrarius: apramycin (31), nebramycin (19) (mixture of several antibiotics, including apramycin and tobramycin), tobramycin (28)

Bacillus circularis: butirosin (25)

USAN

-kalant **potassium channel blockers**

H.2.0.0

(a) adekalant (83), almokalant (64), clamikalant (81), nifekalant (75), terikalant (66), pinokalant (82)

 BAN, USAN
-kalim **potassium channel activators, antihypertensive**

H.3.0.0

(a) aprikalim (64), bimakalim (64), cromakalim (58)/levcromakalim (66), emakalim (66), mazokalim (75), rilmakalim (65), sarakalim (81)

 USAN
-kef- **enkephalin agonists**

casokefamide (65), frakefamide (81), metkefamide (44)

-kin **interleukin type substances**

S.7.0.0

IL-1 : *-nakin* interleukin-1 analogues and derivatives:*-onakin* interleukin-1 analogues and derivatives: pifonakin (77)*-benakin* interleukin-1 analogues and derivatives: mobenakin (72)IL-2 : *-leukin* interleukin-2 analogues and derivatives: adargileukin alfa (89), aldesleukin (63), celmoleukin (65), denileukin diftotox (78), teceleukin (54)

pegaldesleukin (67)

IL-3 : *-plestim* interleukin-3 analogues and derivatives: muplestim (72)IL-4 : *-trakin* interleukin-4 analogues and derivatives: binetrakin (82)IL-6 : *-exakin* interleukin-6 analogues and derivatives: atexakin alfa (72)IL-8 : *-octakin* interleukin-8 analogues and derivatives: emoctakin (74)IL-10 : *-decakin* interleukin-10 analogues and derivatives: ilodecakin (81)IL-11 : *-elvekin* interleukin-11 analogues and derivatives: oprelvekin (76)*-kinra* interleukin receptor antagonists: pitrakinra (84)IL-12 : *-dodekin* interleukin-12 analogues and derivatives: edodekin alfa (79)IL-13 : *-nakinra* interleukin-1 receptor antagonists: anakinra (72)

-kinra **see -kin**

		USAN
-kiren	renin inhibitors	
H.3.0.0		
(a)	aliskiren (83), ciprokiren (69), ditekiren (62), enalkiren (61), remikiren (66), terlakiren (66), zankiren (70)	
-leukin	see -kin	
-listat	see -stat	
		USAN
-lubant	leukotriene B₄ receptor antagonist	
(a)	amelubant (85), moxilubant (78), ticolubant (76)	
-lukast	leukotriene receptor antagonists, see -ast	
		BAN, USAN
-mab	monoclonal antibodies (see also Annex)	
S.7.0.0		
<i>-amab</i>	rat origin	
<i>-emab</i>	hamster origin	
<i>-imab</i>	primate origin	
<i>-omab</i>	mouse origin:	
<i>ba(c)</i>	<u>bacterial</u> : edobacomab (69)	
<i>co(l)</i>	<u>colon</u> : edrecolomab (74), nacolomab tafenatox (71)	
<i>go(v)</i>	<u>ovary (tumours)</u> : igovomab (74), oregovomab (86)	
<i>li(m)</i>	<u>lymphocyte</u> : afelimomab (72), dorlimomab aritox (66), elsilimomab (89), enlimomab (70), enlimomab pegol (77), faralimomab (76), gavilimomab (84), inolimomab (71), maslimomab (66), nerelimomab (76), odulimomab (73), telimomab aritox (66), vepalimomab (80), zolimomab aritox (69)	
<i>ci(r)</i>	<u>cardiovascular</u> : biciromab (66), imciromab (66)	

le(s) inflammatory lesions: lemalesomab (84), sulesomab (75), technetium (^{99m}Tc) fanolesomab (86)

pr(o) tumour (prostate): capromab (70)

tu(m) tumour (miscellaneous): anatumomab mafenatox (79), arcitumomab (74), altumomab (68), bectumomab (75), detumomab (70), epitumomab (82), epitumomab cituxetan (89), ibritumomab tiuxetan (81), minretumomab (80), mitumomab (82), satumomab (67), taplitumomab paptox (84), technetium (^{99m}Tc) nofetumomab merpentan (76), technetium (^{99m}Tc) pintumomab (75), tositumomab (80)

-umab **human origin:**

ba(c) bacterial: nebacumab (66)

li(m) immunomodulator: adalimumab (82), adecatumumab (90), atorolimumab (80), belimumab (89), bertilimumab (88), lerdelimumab (83), metelimumab (86), morolimumab (79), pritumumab (89), zanolimumab (90), ziralimumab (84)

tu(m) tumour: votumumab (70)

vi(r) viral: regavirumab (71), sevirumab (66), tuvirumab (66)

-ximab **chimeric origin**

ci(r) cardiovascular: abciximab (70)

li(m) immunomodulator: basiliximab (76), clenoliximab (77), galiximab (89), infliximab (77), keliximab (76), lumiliximab (90), priliximab (72), teneliximab (87), vapaliximab (87)

me(l) melanoma: ecromeximab (87)

tu(m) tumor: cetuximab (82), rituximab (77)

(c) muromonab CD3 (59)

-zumab **humanized origin**

anib angiogenesis inhibitor: ranibizumab (90)

ci(r) cardiovascular: bevacizumab (83)

li(m) lymphocyte: apolizumab (87), aselizumab (88), certolizumab pegol (90), daclizumab (78) (previously: dacliximab), eculizumab (87), efalizumab (85), erlizumab (84), fontolizumab (87), mepolizuma (81), natalizumab (79), omalizumab (84), palivizumab (79), pascolizumab (87), pexelizumab (85),

reslizumab (85), rovelizumab (81), ruplizumab (83), sipilizumab (87), talizumab (89), tocilizumab (90), toralizumab (87), visilizumab (84)

toxa toxin as target: urtoxazumab (90)

tu(m) tumor: (miscellaneous): alemtuzumab (83), bivatuzumab (83), cantuzumab mertansine (89), cedelizumab (77), epratuzumab (82), gemtuzumab (83), labetuzumab (85), lintuzumab (76), matuzumab (88), pertuzumab (89), sibrotuzumab (81), trastuzumab (78)

vi(r) viral: felvizumab (77)

USAN

-mantadine **adamantane derivatives**
-mantine
-mantone



(a) antiviral: S.5.3.0: amantadine (15), rimantadine (17), somantadine (51), tromantadine (28)

antiparkinsonian: E.2.0.0: carmantadine (31), dopamantine (31), memantine (35)

immunostimulant: S.7.0.0: idramantone (71)

(b) anthelminthic: S.3.1.0: dimantine (14)

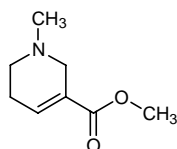
(c) adamexine (36) (mucolytic), amantocillin (17) (antibiotic), bolmantalate (16) (anabolic)

-mastat **see -stat**

USAN

-meline **cholinergic agents (muscarine receptor agonists/partial antagonists used in the treatment of Alzheimer's disease)**

E.1.0.0



alvameline (79), cevimeline (76), itameline (71), milameline (74), sabcomeline (76), tazomeline (77), xanomeline (70)

mer- or**-mer- (d) ¹mercury-containing drugs, antimicrobial or diuretic (deleted from General Principles in List 28 prop. INN)**

- (a) S.2.2.0 antimicrobial: meralein sodium (13), merbromin (1), mercurbutol (1), otimerate sodium (51), phenylmercuric borate (4), sodium timerfonate (13), thiomersal (1)

¹*mer-* and *-mer-* can be used for any type of substances and are no longer restricted to use in INNs for mercury-containing drugs (18th Consultation on INNs 1988)

N.1.3.0 diuretic: chlormerodrin (4), chlormerodrin (197 Hg) (24), meralluride (1), mercaptomerin (1), mercuderamide (1), mercumatilin sodium (4), mercurophylline (1), merisoprol (197 Hg) (24) (diagnostic), mersalyl (4)

- (b) difemerine (17) (spasmolyt.), dimercaprol (1) (antidote, -SH group), lomerizine (68), (cerebral vasodilator), mercaptopurine (6) (cytostatic, -SH group), nifurmerone (16), pemerid (25)

(antituss.), suxemerid (25) (antituss.)

- (c) hydrargaphen (10)

USAN

-mer polymers

- (a) amilomer (33), cadexomer (60), carbetimer (50), carbomer (21), crilanomer (53), dextranomer (33), eldexomer (51), leuciglumer (68), maletamer (14), poloxamer (34), porfimer sodium (64), sevelamer (77), surfomer (44), zinostatin stimalamer (74)
- (b) succimer (42)

-mesine sigma receptor ligands

igmesine (68), panamesine (73), siramesine (81)

USAN

-mestane aromatase inhibitors

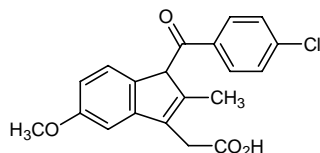
L.0.0.0/Q.2.1.0

exemestane (65), formestane (66), minamestane (64)

BAN, USAN

-metacin (x) anti-inflammatory, indometacin derivatives

A.4.2.0 (BAN: anti-inflammatory substances of the indomethacin group)
 (USAN: -methacin: anti-inflammatory substances (indomethacin type))



(a) acemetacin (32), cinmetacin (24), clometacin (27), delmetacin (48) (originally demetacin (42)), duometacin (27), glucametacin (32), indometacin (13), niometacin (33), oxametacin (37), pimetacin (47), proglumetacin (35), sermetacin (36), talmetacin (46), zidometacin (39)

other anti-inflammatory, indole derivatives: etoprine (22), indopine (12), indoxole (17), nictindole (28)

-met(h)asone see pred

USAN

-micin antibiotics obtained from *various Micromonospora*

(S.6.5.0) (USAN: antibiotics (*Micromonospora strains*))

astromicin (44), betamicin (38), etisomicin (47), evernimicin (82), gentamicin (22), isepamicin (54), maduramicin (52), megalomicin (37), micronomicin (45), mirosamicin (58), netilmicin (36), ozogamicin (83), pentisomicin (41), repromicin (37), rosaramicin (41) (prev. rosamicin), semduramicin (60), sisomicin (25)

-mifene see -ifene**mito- (d) antineoplastics, nucleotoxic agents (deleted from General Principles in List 24 prop. INN)**

L.0.0.0

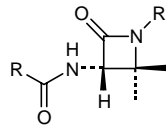
(a) mitobronitol (20), mitocarcin (25), mitoclomine (18), mitoflaxone (60), mitogillin (17), mitoguzone (20), mitolactol (26), mitomalcin (19), mitomycin (26), mitonafide (40), mitopodozide (17), mitoquidone (54), mitosper (24), mitotane (21), mitotenamine (17), mitoxantrone (44), mitozolomide (51)

mitindomide (48)

USAN

-monam monobactam antibiotics

S.6.0.0



(a) carumonam (51), gloximonam (54), oximonam (54), pirazmonam (58), tigemonam (57)

(c) aztreonam (48)

-morelin see -relin

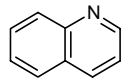
USAN

-mostim see -stim

USAN

-motine antivirals, quinoline derivatives (19th Report 1970)

S.5.3.0 (USAN: antiviral quinoline derivatives)



famotine (23), memotine (22)

-moxin (d) monoamine oxidase inhibitors, hydrazine derivatives*

C.3.1.0

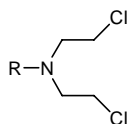
(a) benmoxin (20), cimemoxin (17), domoxin (14), octamoxin (15)
*not part of definition

(c) carbenzide (11), etryptamine (12), fenoxypipazine (12), iproclozide (13), iproniazid (1), isocarboxazid (11), mebanazine (15), nialamide (10), pargyline (13), phenelzine (10), pheniprazine (11), tranlycypromine (11)

USAN

-mustine antineoplastic, alkylating agents, (β-chloroethyl)amine derivatives

L.2.0.0 (USAN: antineoplastic agents ([β-chlorethyl]amine derivatives))



- (a) alestramustine (68), ambamustine (60), atrimustine (61), bendamustine (48), bofomustine (44), carmustine (24), ditiomustine (49), ecomustine (61), elmustine (49), estramustine (24), fotemustine (57), galamustine (61), lomustine (27), mannomustine (8), neptamustine (48) (originally pentamustine (45)), nimustine (37), prednimustine (31), ranimustine (55), semustine (27), spiromustine (47), tallimustine (68), tauromustine (50), uramustine (13)
- (c) chlorambucil (6), chlormethine (1), chlornaphazine (1), cyclophosphamide (10), defosfamide (12), ifosfamide (23), mafosfamide (51), melphalan (8), mitoclomine (18), mitotenamine (17), perfosfamide (66), sarcoclysin (17), sufosfamide (36), trichlormethine (11), trofosfamide (23)

 BAN, USAN

-mycin (x) antibiotics, produced by Streptomyces strains (see also -kacin)

 S.6.0.0 (USAN: antibiotics, Streptomyces strains)

- (a) amfomycin (12), antelmycin (15), apramycin (31), avilamycin (46), azalomycin (26), azithromycin (58), bambermycin (21), bekanamycin (24), berythromycin (26), bicozamycin (38), biniramycin (23), bluensomycin (14), capreomycin (12), carbomycin (1), cethromycin (87), clarithromycin (59), clindamycin (21), coumamycin (15), daptomycin (58), dihydrostreptomycin (1), diproleandomycin (33), dirithromycin (53), efrotomycin (53), endomycin (6), enramycin (23), enviomycin (31), erythromycin (4), estomycin (14 - deleted in List 28), flurithromycin (51), fosfomycin (25), fosmidomycin (46), ganefromycin (68), hachimycin (23), heliomycin (25), hydroxymycin (8 - deleted in List 28), josamycin (23), kanamycin (10), kitasamycin (13), laidlo-mycin (61), lexithromycin (65), lincomycin (13), lividomycin (32), maridomycin (32), midecamycin (30), mikamycin (17), mirincamycin (31), mocimycin (28), natamycin (15), nebramycin (19), neomycin (1), neutramycin (15), oleandomycin (6), paldimycin (55), paromomycin (10), paulomycin (47), pirlimycin (47), primycin (38), pristinamycin (12), ranimycin (20), relomycin (15), ribostamycin (27), rifamycin (13), rokitamycin (53), roxithromycin (54), salinomycin (37), sedecamycin (55), spectinomycin (13), spiramycin (6), stallimycin (30), steffimycin (20), streptomycin (1), telithromycin (80), terdecamycin (65), tobramycin (28), troleandomycin (24), trospectomycin (53), tulathromycin (87) (vet.), vancomycin (6), viomycin (4), virginiamycin (18)

antibiotics, antineoplastics:

ambomycin (13), antramycin (17), azotomycin (13), bleomycin (23), cactinomycin (15), dactinomycin (18), duazomycin (13), lucimycin (13), mitomycin (26), nogalamycin (16), olivomycin (18), peliomycin (15), peplomycin (44), plicamycin (50) (previously mithramycin (16)), porfiromycin (15), puromycin (15), rufocromomycin (12), sparsomycin (13), talisomycin (41)

antibiotics, antineoplastics, antibacterial:

cirolemycin (21)

antibiotic, antifungal:

hamycin (17), lidimycin (20), rutamycin (14)

- (c) antibiotic, antibacterial:
 aspartocin (11), azidamfenicol (14), cetofenicol (14), chloramphenicol (1), cloramfenicol pantotenat comp. (14), cycloserine (6), novobiocin (6), ostreogrycin (6), rifamide (15), rifampicin (17), streptoniazid (13), streptovarycin (6), thiamphenicol (10), tylosin (16)

antibiotic, antifungal:
 amphotericin B (10), candicidin (17), filipin (20), kalafungin (20), nystatin (6), viridofulvin (16)

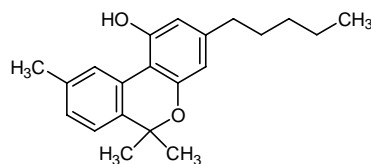
antibiotic, antineoplastic:
 daunorubicin (20), mitomalcin (19), streptonigrin (14) (deleted in List 33)

see also -rubicin

 USAN

nab **cannabinol derivatives**

(USAN: -nab; or -nab-: cannabinol derivatives)



- (a) cannabinol (23), dronabinol (51), menabitan (49), nabazenil (49), nabilone (49), nabitan (42), naboctate (45), nonabine (47), pirnabin (41), rimonabant (83), tinabinol (49)
- (b) fenabutene (26), guanabenz (26), muromonab-CD3 (59), nabumetone (44)

-nakin **see -kin**

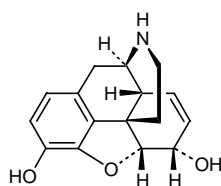
-nakinra **see -kin**

 USAN

nal- **narcotic antagonists/agonists related to normorphine**

A.4.1.0

B.2.0.0 (USAN: narcotic agonists or antagonists related to normorphine)



- a) nalbuphine (21), nalfurafine (87), nalmeferine (49) (originally nalmetrene (47)), nalmexone (19), nalorphine (1), naloxone (13), naltrexone (29)

(b) nalidixic acid (13)

-naritide see **-tide**

-navir see **vir**

-nermin see **-ermin**

-nercept **tumour necrosis factor antagonist**
etanercept (81), lenercept (72), onercept (82)

-nertant see **-tant**

-netant see **-tant**

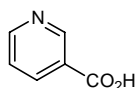
-nicate see **nico-**

-nicline **nicotinic acetylcholine receptor agonists**

E.1.1.2

(a) altinicline (82), tebanicline (86), varenicline (89)

nico- or nic- or ni- **nicotinic acid or nicotinoyl alcohol derivatives**



nico-: nicoboxil (43), nicoclonate (29), nicocodine (12), nicocortonide (40), nicodicodine (15), nicofibrate (31), nicofuranose (14), nicofurate (28), nicomol (23), nicomorphine (7), nicopholine (1), nicorandil (44), nicothiazone (10), nicotinamide (4), nicotinic acid (4), nicotredole (72), nicoxamat (44), nikethamide (4)

inositol nicotinate (16), xantinol nicotinate (16)

nic-: nicafenine (40), nicainoprol (46), nicametate (15), nicardipine (42), nicanartine (72), nicergoline (26), niceritrol (23), niceverine (15), nictindole (28), nizofenone (44)

ni-: nialamide (10), niaprazine (24), nifenazone (15), niometacin (33), niprofazone (29), nixylic acid (17)

-nicate: antihypercholesterolaemic and/or vasodilating nicotinic acid esters

H.4.0.0

F.2.2.0

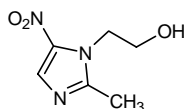
- (a) ciclonicate (33), derpanicate (58), estrapronicate (34), glunicate (51), hepronicate (22), micinicate (44), pantenicate (56), sorbinicate (33)
- (b) nitrile derivative: nimazone (21)
other: nifungin (24), nimidane (34), nisbuterol (38)
- (c) **NO₂ - derivatives**: acenocoumarol (6) (anticoag.), azathioprine (12) and tiamiprine (15) (antimetabolites), bronopol (14) (antiseptic), chloramphenicol (1) (antibiotic), clonazepam (22) (sed.), flurantel (25) (anthelmintic), flutamide (33) (nonsteroid anti-androgen)

BAN, USAN

-nidazole (x) antiprotozoals and radiosensitizers, metronidazole derivatives

S.3.3.0 (USAN: antiprotozoal substances (metronidazole type))

Y.0.0.0



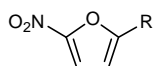
- (a) abunidazole (52), azanidazole (38), bamnidazole (37), benznidazole (31), carnidazole (32), doranidazole (90), etanidazole (57), fexinidazole (37), flunidazole (21), ipronidazole (21), metronidazole (11), misonidazole (38), moxnidazole (33), ornidazole (28), panidazole (24), pimonidazole (57), pirinidazole (32), propenidazole (45), ronidazole (18), satranidazole (48), secnidazole (30), sulnidazole (33), ternidazole (34), tinidazole (21), tivanidazole (48)
- (c) dimetridazole (17), nimorazole (22), stirimazole (25)

-nidine see -onidine

USAN

nifur- (d) 5-nitrofurans derivatives

S.2.1.0



- (a) nifuradene (16), nifuraldezone (17), nifuralide (34), nifuratel (17), nifuratrone (24), nifurdazil (16), nifurethazone (10), nifurfoline (20), nifurimide (18), nifurizone (22), nifurmazole (22), nifurmerone (16), nifuroquine (36), nifuroxazide (14), nifuroxime (11), nifurpipone (20), nifurpirinol (22), nifurprazine (16), nifurquinazol (18), nifursemizone

(16), nifursol (20), nifurthiazole (14), nifurtimox (21), nifurtoinol (36), nifurvidine (17), nifurzide (37)

- (c) furalazine (13), furaltadone (17), furazolidone (13), furazolium chloride (15), furmethoxadone (8), levofuraltadone (17), nitroxyzone (6), nihydrazone (10), nitrofural (1), nitrofurantoin (11), thiofuradene (11)

-nil see **-azenil, also for -carnil, -quinil**

nitro- **NO₂ - derivatives**
or nitr- or nit-
or ni- or -ni-

nifur- all INNs of this series (see under nifur-)

nitro-: nitroclofene (41), nitrocycline (14), nitrodan (15), nitrofural (1), nitrofurantoin (11), nitromifene (33), nitroscanate (33), nitrosulfathiazole (1), nitroxinil (19), nitroxoline (15)

nitr-: nitracrine (35), nitrafudam (40), nitramisole (33), nitraquazone (53), nitrazepam (16), nitrefazole (46), nitricholine perchlorate (6)

nit- and -nit-: nitarsonsone (17), ranitidine (41)

ni-: nibroxane (35), niclofolan (20), niclosamide (13), nitroxyzone (6), nifenalol (22), nihydrazone (10), nimesulide (44), nimorazole (22), niridazole (17)

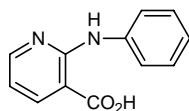
ni-dipine: nicardipine (42), nifedipine (27), niludipine (38), nisoldipine (42), nitrendipine (42), vatamidipine (77)

-nidazole: for INNs of this series see under –nidazole

USAN

-nixin **anti-inflammatory, anilonicotinic acid derivatives**

A.4.2.0



- (a) butanixin (32), clonixin (22), diclonixin (31), flunixin (31), isonixin (34), metanixin (31)
- (c) clonixeril (22), niflumic acid (17), nixylic acid (17)

(-)-nonacog see **-cog**

-octakin see **-akin**

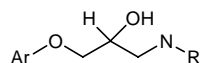
(-)octocog **see -cog**

-ol (d) **for alcohols and phenols (deleted from General Principles in 14th Report)**

BAN, USAN

-olol (x) **β-adrenoreceptor antagonists**

E.5.2.0 (BAN: beta-adrenoreceptor antagonists)

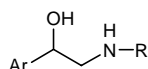


aromat. ring -O-CH₂-CHOH-CH₂-NH-R

(BAN: beta adrenoreceptor blocking agents of the propranolol group)
(USAN: beta-blockers)

- (a) acebutolol (28), adaprolol (63), adimolol (50), afurolol (40), alprenolol (19), ancrolol (47), arnolol (56), arotinolol (48), atenolol (33), befunolol (39), betaxolol (40), bevantolol (36), bisoprolol (48), bometolol (42), bopindolol (42), bornaprolol (46), bucindolol (43), bucumolol (35), bufetolol (30), bunitrolol (28), bunolol (22), bupranolol (27), butocrolol (38), butofilolol (40), carazolol (36), carpindolol (42), carteolol (35), celiprolol (35), cetamolol (47), cicloprolol (48), cinamolol (44), cloranolol (41), crinolol (41) (replaced by pacrinolol (44)), dexpropranolol (21), diacetolol (41), draquinolol (54), ecastolol (56), epanolol (52), ericolol (50), esatenolol (76), esmolol (50), exaprolol (32), falintolol (53), flestolol (53), flusoxolol (50), idropranolol (31), imidolol (49) (replaced by adimolol (50)), indenolol (37), indopanlol (48), iprocrolol (39), isoxaprolol (45), landiolol (75), levobetaxolol (61), levobunolol (42), levomoprolol (58), mepindolol (36), metipranolol (38), metoprolol (30), moprolol (36), nadolol (34), nadoxolol (28), nafetolol (39), nebivolol (56), nipradilol (50) (previously nipradolol (49)), oxprenolol (20), pacrinolol (44), pafenolol (46), pamatolol (36), pargolol (36), penbutolol (25), penirolol (36), pindolol (23), pirepolol (48), practolol (23), primidolol (42), procinolol (25), propranolol (15), ridazolol (51), ronactolol (57), soquinolol (43), spirendolol (46), talinolol (28), tazolol (31), teoprolol (43), tertatolol (48), tienoxolol (56), tilisolol (57), timolol (29), tiprenolol (23), tolamolol (29), toliprolol (28), trigevolol (56), xibenolol (48), xipranolol (22)
- (b) Q.2.3.0: stanozolol (18) (anabolic steroid)

-alol **aromatic ring -CH-CH₂-NH-R related to -olols**
OH



(USAN: combined alpha and beta blockers)

amosulalol (50), bendacalol (59), brefonalol (56), bufuralol (31), dexsotalol (74), dilevalol (50), labetalol (35), medroxalol (43), nifenalol (22), pronetalol (14), sotalol (18), sulfinalol (41), butidrine (16)

(c) butidrine (16)

USAN

-olone **see pred**

-onakin **see -kin**

-one (d) **ketones**

(a) 448 (9.62%) INNs ending in *-one* in Lists 1-48 of Proposed INNs

BAN, USAN

-onide **steroids for topical use, acetal derivatives**

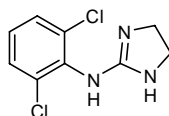
Q.3.0.0

(a) acrocinnonide (27), amcinonide (33), budesonide (37), ciclesonide (62), cicortonide (28), ciprocinonide (38), desonide (24), dexbudesonide (80), drocinonide (29), fluclorolone acetonide (22), fluocinolone acetonide (11), flumoxonide (38), fluocinonide (25), halcinonide (29), itrocinnonide (62), nicocortonide (40), procinnonide (38), rofleponide (72), tralonide (27), triamcinolone benetonide (36), triamcinolone furetonide (36), triamcinolone hexacetonide (15), triclونide (30)

(c) amcinafal (25), amcinafide (25)

-onidine **antihypertensives, clonidine derivatives**

H.3.0.0



(a) apraclonidine (59) (control of intraocular pressure), benclonidine (42), brimonidine (66), clonidine (40), flutonidine (31), moxonidine (48), piclonidine (44), tolonidine (28)
related: alinidine (40) (analgesic)

-nidine

H.3.0.0

- (a) related antihypertensives: betanidine (13), indanidine (50), rilmenidine (57), tiamenidine (28)
- (b) muscle relaxant: tizanidine (43)
topical antiinfective: octenidine (43), pirtenidine (57)
antibacterial: sulfaguanidine (4)
vet. coccidiostat: robenidine (25)
- (c) dexlofexidine (48), levlofexidine (48), lofexidine (33)

-onium **see -ium**

-opamine **see -dopa**

BAN, USAN

-orex **anorexics**

M.1.0.0 (BAN: anorexic agents, phenethylamine derivatives)
 (USAN: anorexants)

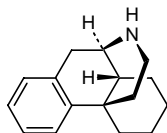
- (a) acridorex (21), amfepentorex (16), aminorex (14), benfluorex (25), clobenzorex (18), cloforex (16), clominorex (14), difemetorex (41), etolorex (20), fenisorex (29), fenproporex (17), flucetorex (30), fludorex (19), fluminorex (14), formetorex (14), furfenorex (16), indanorex (30), mefenorex (19), morforex (26), oxifentorex (20), pentorex (16), picilorex (40), tiflorex (34)
- (c) amfebutamone (31), amfecloral (12), amfepramone (13), amfetamine (55), amfetaminil (40), benzfetamine (55), brolamfetamine (55), chlorphentermine (11), clortermine (22), dexamfetamine (55), dimetamfetamine (38), etilamfetamine (40), fenbutrazate (12), fenfluramine (14), hexapradol (12), levamfetamine (12), mephentermine (6), ortetamine (13), phendimetrazine (11), phenmetrazine (6), phentermine (11)

orphan narcotic antagonists/agonists, morphinan derivatives

A.4.1.0

B.2.0.0

(USAN: -orphan: morphinan derivatives that are narcotic antagonists or agonists)



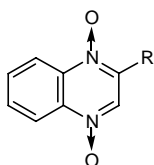
- (a) A.4.1.0: butorphanol (31), dextromethorphan (1), dextrophan (1), dimemorfan (30), ketorfanol (49), levomethorphan (1), levophenacymorphan (9), levorphanol (4), norlevorphanol (9), oxilorphan (31), phenomorphan (5), proxorphan (43), racemethorphan (1), racemorphan (1), xorphanol (48)

B.2.0.0: levallorphan (2)

-orph- **-orphine**: acetorphine (17), alletophine (25), buprenorphine (29), cyprenorphine (17), desomorphine (5), diprenorphine (21), etorphine (17), homprenorphine (25), methyl-desorphine (5), methyl-dihydro-morphine (5), nalorphine (1), nicomorphine (7), normorphine (7)

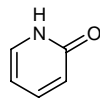
-orphinol: hydromorphinol (11)**-orphone**: conorfone (46), hydromorphone (1), oxymorphone (5), pentamorphone (60), semorphone (67)

- (b) emorfazone (44), morforex (26), morpheridine (6), orphenadrine (8)

-ox
-alox**antacids, aluminium derivatives**: glucalox (13), sucralox (13)**-dox** antibacterials, quinazoline dioxide derivatives:

carbadox (19), ciadox (44), cinoquidox (40), drazidox (24), mequidox (19), olaquindox (31), temodox (27)

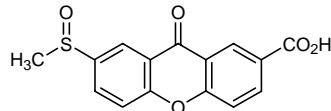
-pirox antimycotic pyridone derivatives:



ciclopirox (26), metipirox (26), rilopirox (56)

USAN

-xanox anti-allergics, tixanox group:



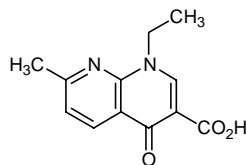
- (a) amlexanox (55), mepixanox (49), sudexanox (44), tixanox (37), traxanox (44)
- (c) xanoxic acid (33)

others: bifeprunox (87) (antipsychotic), cefminox (53) (antibiotic), deferasirox (86) (chelating agent), nifurtimox (21) (antiprotozoal), sulbenox (37) (animal growth regulator), acipimox (33) (antilipemic), etofenprox (57) (insecticide)

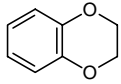
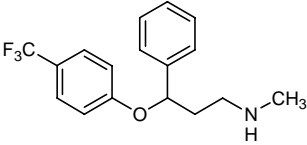
BAN, USAN

-oxacin (x) antibacterials, nalidixic acid derivatives

S.5.5.0 (BAN: antibacterial agents of the cinoxacin group)
(USAN: antibacterial agents (nalidixic acid type))



- (a) alatrofloxacin (75), amifloxacin (51), balofloxacin (71), binfloxacin (60), cadrofloxacin (81), cetefloxacin (68), cinoxacin (32), ciprofloxacin (50), clinafloxacin (67), danofloxacin (61), difloxacin (55), droxacin (36), ecenofloxacin (78), enoxacin (49), enrofloxacin (56), esafloxacin (60), fandofloxacin (78), finafloxacin (85), fleroxacin (56), garenoxacin (87), gatifloxacin (74), gemifloxacin (81), grepafloxacin (68), ibafloxacin (60), irloxacin (53), levofloxacin (64), lomefloxacin (58), marbofloxacin (65), merafloxacin (69), miloxacin (40), moxifloxacin (78), nadifloxacin (64), norfloxacin (46), ofloxacin (49), olamufloxacin (79), orbifloxacin (68), pazufloxacin (71), pefloxacin (45), pradofloxacin (84), premafloxacin (72), prulifloxacin (72), rosoxacin (36), rufloxacin (57), sarafloxacin (62), sitafoxacin (75), sparfloxacin (63), temafloxacin (58), tioxacin (34), tosufloxacin (60), trovafloxacin (73), vebufloxacin (69)
- (c) flumequine (34), nalidixic acid (13), oxolinic acid (15), pipemidic acid (32), piromidic acid (27), metioxate (34)

		USAN
-oxan(e)	benzodioxane derivatives	
E.5.1.0	(USAN: -adrenoreceptor antagonists; benzodioxane derivatives)	
		
(a)	<p>-adrenoreceptor antagonists azaloxan (52) (antidepressant), fluparoxan (58) (antidepressant), idazoxan (49) (α_2), imiloxan (52) (α_2) (antidepressant), piperoxan (1) (sympatholytic), proroxan (39)</p> <p>antihypertensives: flesinoxan (55), guabenzan (32), guanoxan (15)</p> <p>tranquillizers: butamoxane (12), ethomoxane (12), pentamoxane (12)</p> <p>related: efroxan (59) (α_2)</p>	
(b)	ambenoxan (21), amoproxan (22), nibroxane (35), razoxane (40)/dexrazoxane (62), sobuzoxane (62), tolboxane (12)	
		USAN
-oxanide	see -anide	
		USAN
-oxef	see cef-	
		USAN
-oxepin	see -pine	
		USAN
-oxetine	antidepressants, fluoxetine derivatives	
C.3.0.0		
		
(a)	ansoxetine (58), dapoxetine (65), duloxetine (68), femoxetine (36), fluoxetine (34), ifoxetine (54), litoxetine (64), nisoxetine (34), omiloxetine (76), paroxetine (38), reboxetine (54), seproxetine (66), tomoxetine (49)	

-oxicam **see -icam**

-oxifene **see -ifene**

-oxopine **see -pine**

-pafant **platelet-activating factor antagonists**

BAN, USAN

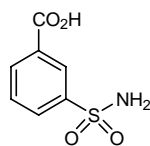
I.2.1.0

- (a) apafant (60), bepafant (60), dacopafant (63), foropafant (75), israpafant (76), lexipafant (70), minopafant (80), modipafant (65), nupafant (70), rocepafant (71), setipafant (72), tulopafant (64)
-

-pamide **diuretics, sulfamoylbenzoic acid derivatives
(could be sulfamoylbenzamide) (19th Report, 1970)**

USAN

N.1.2.0 (USAN: diuretics (sulfamoylbenzoic acid derivatives))

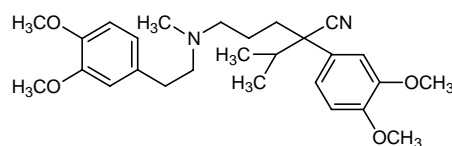


- (a) alipamide (18), besulpamide (52), clopamide (13), indapamide (29), tripamide (44), xipamide (22), zidapamide (50) (previously isodapamide (47))
- (b) chlorpropamide (8) (hypoglycemic), isopropamide iodide (8) (anticholinergic)
- (c) bumetanide (24), chlortalidone (12), clorexolone (15), furosemide (14), sulclamide (15), tiamizide (16)
-

-pamil **coronary vasodilators, verapamil derivatives**

USAN

F.2.1.0 (USAN: coronary vasodilators (verapamil type))



- (a) anipamil (49), dagapamil (52), devapamil (53), dexverapamil (65), emopamil (52), falipamil (48), gallopamil (38), levemopamil (62), nexopamil (67), ronipamil (51), tiapamil (43), verapamil (16)

related: bertosamil (64), bisaramil (60)

-parcin **for glycopeptide antibiotics** USAN

S.6.0.0

- (a) avoparcin (29), orientiparcin (72)

-parin **heparin derivatives including low molecular mass heparins** USAN

I.2.0.0

- (a) ardeparin sodium (68), bemiparin sodium (75), certoparin sodium (70), dalteparin sodium (64), deligoparin sodium (89), enoxaparin sodium (52), heparin sodium (54), livaraparin calcium (85), minolteparin sodium (73), nadroparin calcium (65), parnaparin sodium (65), reviparin sodium (65), tinzaparin sodium (65)

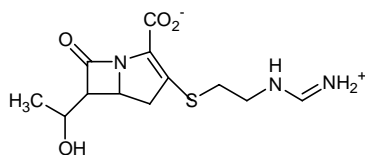
-parinux **synthetic heparinoids**

fondaparinux sodium (83) (replaces fondaparin sodium (79))

-pendyl **see -dil**

-penem **analogues of penicillanic acid antibiotics modified in the five-membered ring** USAN

S.6.0.0 (USAN: analogues of penicillanic acid antibiotics modified in the five-membered ring)



- (a) biapenem (69), doripenem (83), ertapenem (84), faropenem (69), imipenem (50), lenapenem (73), meropenem (60), panipenem (64), ritipenem (67), sulopenem (68), tacapenem (87), tebipenem (82)

perfl(u)- **perfluorinated compounds used as blood substitutes and/or diagnostic agents**

- (a) perflexane (82), perfluamine (45), perflubrodec (87), perflubron (66), perflunafene (45), perflutren (82)

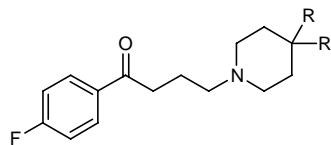
-peridol **see -perone**

-peridone **see -perone**

-perone **tranquillizers, neuroleptics, 4'-fluoro-4-piperidinobutyrophenone derivatives** USAN

C.1.0.0

C.2.0.0 (USAN: 4'-fluoro-4-piperidinobutyrophenone derivatives; antianxiety agents; neuroleptics)



(a) aceperone (14), amiperone (14), biriperone (51), carperone (24), cicarperone (28), cinuperone (53), cloroperone (38), declenperone (42), duoperone (54), fenaperone (28), fluspiperone (34), lenperone (27), melperone (34), metrenperone (56), milenperone (37), mindoperone (38), moperone (14), nonaperone (44), pipamperone (17), pirenperone (46), prideperone (54), primaperone (17), propyperone (16), roxoperone (17), setoperone (51), spiperone (17), timiperone (40)

closely related: azabuperone (34), azaperone (18), lodiperone (44), zoloperone (39)

-peridol **antipsychotics, haloperidol derivatives** USAN

benperidol (14), bromperidol (33), [clofluperol (18)], droperidol (14), [fluanisone (13)], haloperidol (10), trifluperidol (16)

-peridone **antipsychotics, risperidone derivatives** USAN

abaperidone (80), belaperidone (78), cloperidone (17), iloperidone (69), lusaperidone (82), ocaperidone (64), paliperidone (83), risperidone (57), tioperidone (37)

(c) domperidone (36), etoperidone (36) (antiemetic)

-pidem **hypnotics/sedatives, zolpidem derivatives** USAN

C.1.0.0

alpidem (53), necopidem (66), saripidem (67), zolpidem (53)

-pin(e)	see also Pharm S/Nom 970 (tricyclic compounds)
<i>-dipine</i>	see <i>-dipine</i>
(a)	
<i>-zepine</i>	<u>antidepressant/neuroleptic: C.3.2.0</u> : dibenzepin (14), elanzepine (35), enprazepine (30), mezepine (22), nuvenzepine (59), prazepine (15), propizepine (19), tilozepine (40) <u>tricyclic antiulcer: J.0.0.0</u> : darenzepine (52), pirenzepine (30), siltenzepine (63), telenzepine (50), zolenzepine (48) <u>tricyclic anticonvulsant: A.3.1.0</u> : carbamazepine (15), etazepine (51), licarbazepine (81), oxcarbazepine (41) <u>hyperthermia</u> : amezepine (42)
<i>-apine</i>	<u>psychoactive: C.0.0.0</u> : amoxapine (25), asenapine (87), batelapine (64), clotiapine (16), clozapine (22), flumezapine (47), fluperlapine (46), loxapine (22), metiapine (22), mirtazapine (61), olanzapine (67), pentiapine (56), perlapine (23), quetiapine (74), rilapine (52), serazapine (63), tenilapine (52)
<i>-cilpine</i>	<u>antiepileptic: A.3.1.0</u> : dizocilpine (60)
<i>-oxepin</i>	beloxepin (75), cidoxepin (17), doxepin (15), maroxepin (54), metoxepin (33), pinoxepin (18), savoxepin (56), spiroxepin (32)
<i>-oxopine</i>	traboxopine (58)
<i>-sopine</i>	adosopine (63)
<i>-tepine</i>	citatepine (54), clorotepine (29), damotepine (27), metitepine (27), tropatepine (28) dosulepin (15)
(b)	atromepine (15), noscapine (7), prozapine (14)
(c)	clobenzepam (25), homopipramol (20), opipramol (15)
-piprazole	see -prazole
-pirone	see -spirone
-pirox	see -ox/-alox

-pitant	see -tant	
-plact	platelet factor 4 analogues and derivatives	
	iropact (74)	
-planin	antibacterials (<i>Actinoplanes</i> strains)	USAN
S.5.0.0	actaplanin (34), mideplanin (66), ramoplanin (57), teicoplanin (48)	
-plase	see -teplase, -uplase under -ase	
-platin	antineoplastic agents, platinum derivatives	USAN
L.0.0.0	(USAN: antineoplastics (platinum derivatives))	
(a)	carboplatin (48), cisplatin (39), dexormaplatin (64), enloplatin (64), eptaplatin (83), iproplatin (51), lobaplatin (65), miboplatin (66), miriplatin (85), nedaplatin (67), ormaplatin (63), oxaliplatin (56), picoplatin (87), satraplatin (80), sebriplatin (68), spiroplatin (48), triplatin tetranitrate (87), zeniplatin (63)	
-plermin	see -ermin	
-plestim	see -stim and -kin	
-plon	pyrazolo[.]pyrimidine derivatives, used as anxiolytics, sedatives, hypnotics	
A.2.2.0		
C.1.0.0	ocinaplon (72), indiplon (86), zaleplon (72)	
-poetin	erythropoietin type blood factors	BAN, USAN
I.0.0.0		
(a)	darbepoetin alfa (85), epoetin alfa (62), epoetin beta (62), epoetin delta (85), epoetin gamma (67), epoetin epsilon (72), epoetin omega (73)	

-porfin **benzoporphyrin derivatives** USAN

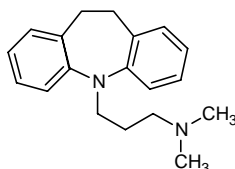
(a) rostaporfin (83), stanssoporfin (79), talaporfin (83), temoporfin (70), verteporfin (71)

-poride **Na⁺/H⁺ antiport inhibitor**

amiloride (18), cariporide (74), eniporide (79), sabiporide (84), zoniporide (85)

-pramine **substances of the imipramine group** BAN, USAN

C.3.2.0 (USAN: imipramine type compounds)

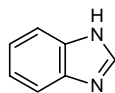


(a) saturated dibenzazepine:
 azipramine (36), carpipramine (16), cianopramine (47), ciclopramine (29), clocapramine (28), clomipramine (17), depramine (31), desipramine (13), imipramine (8), ketimipramine (17), lofepramine (24), lopramine (24) (replaced by lofepramine (34)), metapramine (34), mosapramine (64), pumaprazole (76), quinupramine (32), tampramine (54), tienopramine (38), trimipramine (13), imipraminoxide (36)

(c) unsaturated dibenzazepine:
 carbamazepine (15), homopipramol (20), opipramol (15)

-prazole **antiulcer, benzimidazole derivatives** USAN

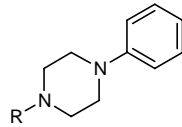
J.0.0.0 (USAN: antiulcerative benzimidazole derivatives)



(a) cinprazole (34), disuprazole (56), esaprazole (45), esomeprazole (79), fuprazole (39), ilaprazole (86), lansoprazole (60), leminoprazole (68), nepaprazole (74), nilprazole (37), omeprazole (46), pantoprazole (62), picoprazole (46), pumaprazole (76), rabeprazole (69), saviprazole (62), tenatoprazole (80), timoprazole (35), ufiprazole (58)

-piprazole psychotropics, phenylpiperazine derivatives

C.0.0.0

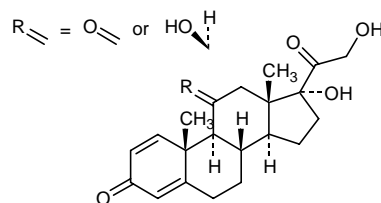


- (a) aripiprazole (75), dapiprazole (45), elopiprazole (70), enpiprazole (24), lorpiprazole (60), mepiprazole (24), sonpiprazole (80) tolpiprazole (25)
- (b) dapiprazole (see above)

USAN

pred prednisone and prednisolone derivatives

Q.3.3.0 (USAN: pred-; -pred- or -pred)



- (a) chloroprednisone (12), cloprednol (31), difluprednate (21), domoprednate (47), etiprednol dicloacetate (88), fluprednidene (19), fluprednisolone (13), halopredone (36), isoflupredone (36), isoprednidene (24), loteprednol (64), mazipredone (32), meprednisone (15), methylprednisolone (8), methylprednisolone aceponate (52), methylprednisolone suleptanate (56), oxisopred (29), prednazate (16), prednazoline (22), prednicarbate (44), prednimustine (31), prednisolamate (13), prednisolone (6), prednisolone steaglate (16), prednisone (6), prednylidene (13), tipredane (54)
- (c) **-methasone or -metasone:** alclometasone (41), amelometasone (74), beclometasone (17), betamethasone (11), betamethasone acibutate (26), cormetasone (29), desoximetasone (20), dexamethasone (8), dexamethasone acefurate (57), flumetasone (13), halometasone (41), icometasone enbutate (70), mometasone (56), paramethasone (12)

-betasol: clobetasol (26), doxibetasol (26), ulobetasol (54)

(USAN: steroids (not prednisolone derivatives))

- Q.3.0.0 **-olone:** clocortolone (16), descinolone (17), diflucortolone (18), fluclorolone acetonide (22), fluocinolone acetonide (11), fluocortolone (15), fluorometholone (8), fluperolone (13), ganaxolone (76), halocortolone (31), rimexolone (38), triamcinolone (8), triamcinolone benetonide (36), triamcinolone furetonide (36), triamcinolone hexacetonide (15)

clobetasone (26), cloticasone (52), deprodone (20), dichlorisone (10), diflorasone (30), flunisolide (11), fluticasone (52), meclorisone (40), timobesone (51)

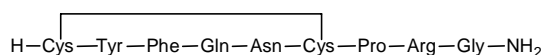
-olone	<u>steroids other than prednisolone derivatives</u>
A.1.2.0	<u>general anesthetics, pregnanes</u> : alfadolone (27), alfaxalone (27), minaxolone (39), renanolone (8)
H.2.0.0	<u>anti-arrhythmic</u> : amafolone (40), edifolone (56)
L.6.0.0	<u>cytostatics - sex hormones</u> : drostanolone (13), trestolone (25)
Q.2.3.0	<u>androgens</u> : androstanolone (4), drostanolone (13), mesabolone (29), mestanolone (10), mesterolone (15), metenolone (12), metribolone (17), nandrolone (22), norethandrolone (6), oxabolone cipionate (14), oxandrolone (12), oxymetholone (11), quinbolone (14), rosterolone (59), stenbolone (17), tibolone (22), trenbolone (24)
J.0.0.0	<u>glycyrrhetic acid derivatives</u> : carbenoxolone (15), cicloxolone (33), cinoxolone (33), deloxolone (51), enoxolone (15), roxolonium metilsulfate (33)
Q.2.3.1	oxendolone (42)
	<u>various non-steroidal compounds</u>
	citolone (23) (hepato-bil.troubles), clorexolone (15) (diuretic), fenzolone (14) (psychotonic), tioxolone (16) (keratolytic), vistatolon (25) (antiviral)

-prenaline see **-terol**

-pressin **vasoconstrictors, vasopressin derivatives**

USAN

Q.1.2.0



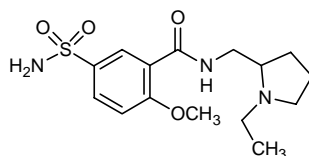
- (a) argipressin (13), desmopressin (33), felypressin (13), lypressin (13), omipressin (22), terlipressin (46), vasopressin injection (16)

-pride (x) **sulpiride derivatives**

BAN, USAN

C.0.0.0

J.1.1.0



- (a) C.0.0.0: alizapride (43), alpiropride (49), amisulpride (44), batanopride (61), broclepride (43), cisapride (49), dazopride (50), denipride (58), etacepride (52), eticlopride (52), flubepride (35), nemonapride (63) (previously emonapride (61)), peralopride (43), prosulpride (43), prucalopride (78), sulmepride (43), sultopride (26), sulverapride (44), veralipride (43)

J.1.0.0: alepride (40), bromopride (27), cinitapride (41), cipropride (41), clebopride (32), dobutpride (57), irolapride (55), isosulpride (36), itopride (66), lintopride (65), lirexapride (74), lorapride (44), mezacopride (56), mosapride (66), pancopride (62), raclopride (52), remoxipride (49), renzapride (60), tiapride (28), ticalopride (83), tinisulpride (44), trazolopride (51), tropapride (48), zacopride (55)

K.0.0.0: cloxacepride (42)

U.1.1.0/C.0.0.0: iolopride (^{123}I) (73)

(b) glimepride (66)

(c) C.0.0.0: levosulpiride (63), sulpiride (18)

J.1.0.0: metoclopramide (17)

BAN, USAN

-pril (x) angiotensin-converting enzyme inhibitors

H.3.0.0 (BAN: inhibitors of angiotensin-converting enzyme)
(USAN: antihypertensive agents (captopril type))

(a) alacepril (50), benazepril (58), captopril (39), ceronapril (64), cilazapril (53), delapril (54), enalapril (46), fosinopril (56), idrapril (66), imidapril (60), indolapril (50), libenzapril (58), lisinopril (50), moexipril (60), moveltipril (58), orbutopril (57), pentopril (53), perindopril (53), pivopril (52), quinapril (54), ramipril (52), rentiapril (55), spirapril (56), temocapril (64), trandolapril (53), utibapril (63), zabicipril (58), zofenopril (51)

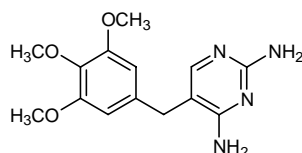
-prilat (x)

(a) benazeprilat (58), cilazaprilat (54), enalaprilat (50), fosinoprilat (62), imidaprilat (71), moexiprilat (67), perindoprilat (56), quinaprilat (60), ramiprilat (53), spiraprilat (60), temocaprilat (78), trandolaprilat (60), utibaprilat (65), zabiciprilat (64), zofenoprilat (63)

USAN

-prim antibacterials, trimethoprim derivatives

S.5.5.0



(a) aditoprim (49), baquiloprim (56), brodimoprim (44), epioprim (44), iclaprim (88), metioprim (42), ormetoprim (21), tetroxoprim (33), trimethoprim (11), vaneprim (48)

(c) diaveridine (18)

-pristin antibacterials, pristinamycin derivatives

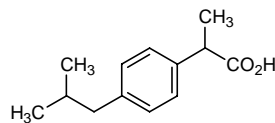
S.6.0.0

- (a) dalfopristin (67), efepristin (75), quinupristin (65), volpristin (80)

BAN, USAN

-profen (x) anti-inflammatory agents, ibuprofen derivatives

A.4.2.0 (USAN: anti-inflammatory or analgesic substances (ibuprofen type))



- (a) alminoprofen (40), araprofen (65), atliprofen (74), bakeprofen (61), benoxaprofen (34), bermoprofen (57), bifeprofen (57), carprofen (35), cicloprofen (32), cliprofen (32), dexibuprofen (61), dexindoprofen (49), dexketoprofen (70), esflurbiprofen (56), fenoprofen (26), flunoxaprofen (44), fluprofen (18), flurbiprofen (28), frabuprofen (51), furaprofen (42), furcloprofen (44), hexaprofen (30), ibuprofen (16), indoprofen (32), isoprofen (40), ketoprofen (28), lobuprofen (53), lonaprofen (44), losmiprofen (61), loxoprofen (50), mabuprofen (64), mexoprofen (33), miroprofen (44), odalprofen (66), pelubiprofen (76), piketoprofen (40), pirprofen (32), pranoprofen (38), suprofen (31), tazeprofen (50), tetriprofen (29), tilnoprofen arbamel (74), tioxaprofen (39), vedaprofen (72), ximoprofen (37), zaltoprofen (64), zoliprofen (55)
- (b) aprofene (12) (antispasm. coron. vasodil.), diprofene (12) (antispasm. blood vessels)
- (c) brofezil (31), protizinic acid (27), tiaprofenic acid (30)

BAN, USAN

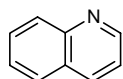
prost (x) prostaglandins

Q.0.0.0 (USAN: -prost- or -prost: prostaglandin derivatives)

- (a) alfaprostol (45), alprostadil (39), ataprost (62), beraprost (59), bimatoprost (85), butaprost (55), carboprost (36), cicaprost (54), ciprostene (51), clinprost (68), cloprostenol (33), delprostenate (42), dimoxaprost (52), dinoprost (26), dinoprostone (26), doxaprost (34), ecraprost (83), eganoprost (84), enisoprost (50), epoprostenol (44), eptaloprost (56), etiproston (46), fenprostalene (42), flunoprost (53), fluprostenol (33), froxiprost (55), gemeproston (42), iloprost (48) (originally ciloprost (46)), lanprost (72), latanoprost (67), limaprost (56), lubiprostone (87), luprostiol (44), meteneprost (45), misoprostol (47), naxaprostene (58), nileprost (45), nocloprost (51), oxoprostol (44), penprostene (37), pimilprost (71), piriprost (51), prostalene (34), remiprostil (65), rosaprostol (48), sulprostone (37), taprostene (58), tiaprost (41), tafluprost (89), tilsuprost (51), tiprostanide (48), travoprost (80), treprostiniil (87), unoprostone (66), vapiprost (58), viprostol (53)

-prostil prostaglandins, anti-ulcer

- (a) arbaprostil (35), deprostil (32), enprostil (50), mexiprostil (52), ornoprostil (56), rioprostil (49), spiriprostil (63), trimoprostil (49)

-quine (d) quinoline derivatives (deleted from General Principles in List 28 prop. INN)
quin

- (a) antimalarial: amodiaquine (1), amopyroquine (8), bulaquine (82), chloroquine (4), hydroxychloroquine (8), mefloquine (33), moxipraquine (26), pamaquine (4), pentaquine (4), primaquine (1), quinocide (34), tafenoquine (80), tebuquine (49)

amebicide: clamoxyquine (16), mebiquine (29) (gastrointest. antiseptic), benzoxiquine (18) (antiseptic), cletoquine (20) (anti-inflammatory), cloxiquine (30) (antiseptic), debrisoquine (15) (hypotensive agent), esproquine (31) (cardiovascular agent), flumequine (34) (antibacterial), guanisoquine (15) (hypotensive agent), nifuroquine (36), oxamniquine (28) (schistosomacide)

- (c) antirheumat., antigout (antimalarial): acequinoline (22), cinchophen (1), neocinchophen (1), oxycinchophen (6)

antibact.: actinoquinol (15), aminoquinuride (45), broquinaldol (17), broxaldine (12), chlorquinaldol (1), clioquinol (16), dequalinium chloride (8), diiodohydroxyquinoline (1), laurolinium acetate (12), nitroxoline (15), quindecamine (15), tilbroquinol (45), tiliquinol (45)

antifungal: hedaquinium chloride (8)

anthelmintic: pyrvinium chloride (6)

treatment of leishmaniasis etc: aminoquinol (22), sitamaquine (80)

amebicide: cloquinate (11), dehydroemetine (15), quinfamide (40)

antiproteus: oxolinic acid (15)

coccidiostat: amquinatate (21), buquinolate (16), ciproquinatate (22), decoquinatate (20), nequinatate (22), proquinolate (17), quinoxin (26) (growth promoter for pigs and poultry)

growth promoter, bactericide: cinoquidox (40), olaquinox (31) (quinoxaline derivative)

antiviral: famotine (23), memotine (22)

antihypertensive: amiquinsin (17), leniquinsin (18), peraquinsin (29) (quinazolinone derivative), trethinium tosilate (14), quinuclium bromide (40)

heart failure: buquineran (40)

diuretic: quincarbonate (31)

vasodilator, treatment of cerebrovascular insuff.: viquidil (25)

curarizing agent: dimethyltubocurarinium chloride (1), laudexium metilsulfate (4), tubocurarine chloride (1)

anti-cholinergic: toquizine (17), tiquizium bromide (47)

antispasm. muscle relaxant: dimoxyline (1), drotaverine (17), ethaverine (4), flucarbril (14), niceverine (15), octaverine (18), quinetalate (16)

bronchodilator: quinprenaline (17), tretoquinol (21), (bronchial asthma)

oxytocic: quipazine (17)

analgesic: glafenine (15), metofoline (12)

local anaesthetic: cinchocaine (1), euprocin (22), quinisocaine (4)

antituss.: iquindamine (34), noscapine (7)

diagnostic aid: quinaldine blue (17)

antihist.: pirquinozol (43), tritoqualine (14)

antihyperlipidemic: climiqualine (33) (isoquin. der.)

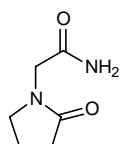
anti-ulcer: isotiquimide (49), tiquinamide (35)

-quinil **see -azenil**

-racetam **amide type nootrope agents, piracetam derivatives**

BAN, USAN

B.1.0.0 (BAN: substances of the piracetam group)
 (USAN: nootropic substances (piracetam type))



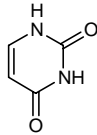
(a) aloracetam (62), aniracetam (44), cebaracetam (66), coluracetam (86), dimiracetam (68), doliracetam (53), dupracetam (38), etiracetam (40), fasoracetam (78), imuracetam (42),

levetiracetam (62), molracetam (55), nebracetam (59), nefiracetam (64), nicoracetam (63), oxiracetam (43), piracetam (22), pramiracetam (46), rolziracetam (54)

related: tenilsetam (51)

-racil **uracil type antineoplastics**

L.0.0.0



(a) eniluracil (77), fluorouracil (13), gimeracil (80), oteracil (80)

-thiouracil **uracil derivatives used as thyroid antagonists**

(a) iodothiouracil (01), methylthiouracil (01), pripylthiouracil (01)

BAN, USAN

-relin (x) **pituitary hormone-release stimulating peptides**

Q.0.0.0 (BAN: hypophyseal hormone release-stimulating peptides)

(a) LHRH-release-stimulating peptides: avorelin (74), buserelin (36), deslorelin (61), gonadorelin (32), goserelin (55), histrelin (53), leuprorelin (47), lutrelin (51), nafarelin (50), triptorelin (56)

-morelin growth hormone release-stimulating peptides: capromorelin (83), dumorelin (59), examorelin (72), ipamorelin (78), pralmorelin (77), rismorelin (74), sermorelin (56), somatorelin (57), tabimorelin (80)

-tirelin thyrotropin releasing hormone analogues:

(a) azetirelin (60), fertirelin (42), montirelin (58), orotirelin (58), posatirelin (60), protirelin (31), taltirelin (75)

(a) other: corticorelin (64)

USAN

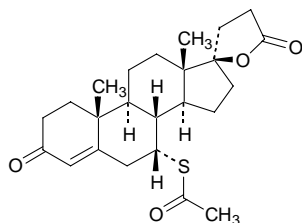
-relix **hormone-release inhibiting peptides**

(a) abarelix (78), cetrorelix (64), degarelix (86), detirelix (56), ganirelix (65), iturelix (79), prazarelix (81), ramorelix (68), teverelix (71)

USAN

-renone **aldosterone antagonists, spironolactone derivatives**

N.1.8.0 (USAN: aldosterone antagonists (spironolactone type))



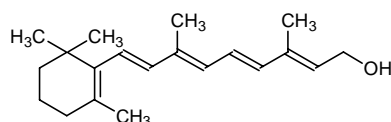
- (a) canrenoic acid (20) and potassium canrenoate (20), canrenone (20), dicirenone (50), drospirenone (63), eplerenone (77), mespirenone (51), spirorenone (45)
- (b) bromchlorenone (12) (antifungal), menatetrenone (28) (antihemor-rhagic), teprenone (50), ubidecarenone (48) (in congestive heart failure)
- (c) oxprenoate potassium (53), prorenoate potassium (32), spironolactone (11), spiroxasone (14)

-restat **see -stat**

USAN

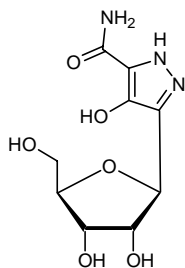
retin **retinol derivatives**

P.1.0.0 (USAN: -retin-)



- (a) acitretin (56) (previously etretin (51)), alitretinoin (80), doretinel (60), etretinate (41), fenretinide (51), isotretinoin (41), motretinide (38), pelretin (60), retinol (18), tretinoin (25), tretinoin tocoferil (66)
- (b) noretynodrel (13), secretin (1), trethinium tosilate (14)

USAN

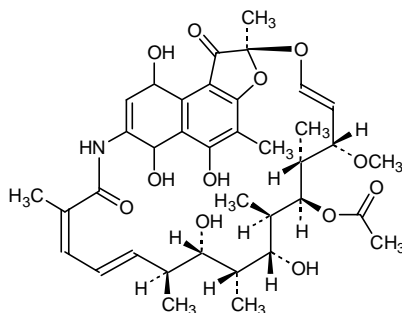
-ribine **ribofuranyl-derivatives of the "pyrazofurin" type**L.0.0.0/
S.5.3.0

- (a) azaribine (19), cladribine (68), isatoribine (83), loxoribine (64), mizoribine (46), triciribine (46)
- (c) pirazofurin (31), ribavirin (31), riboprine (20), tiazofurine (48)
- related: benaxibine (50)

USAN

rifa- **antibiotics, rifamycin derivatives**

S.6.4.0

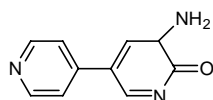


- (a) rifabutin (52), rifalazil (78), rifametane (61), rifamexil (67), rifamide (15), rifampicin (17), rifamycin (13), rifapentine (43), rifaximin (49) (previously rifaxidine (48))

USAN

-rinone **cardiac stimulants, amrinone derivatives**

H.1.0.0 (USAN: cardiotonic agents (amrinone type))



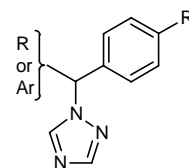
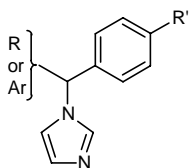
- (a) amrinone (38), bemarkinone (57), medorinone (54), milrinone (50), nanterinone (60), olprinone (70), pelrinone (53), saterinone (56), toborinone (72), vesnarinone (57)
- (b) gestrinone (39), indacrinone (51), taziprinone (48)

-rizine **see -izine**

USAN

-rozole **aromatase inhibitors, imidazole-triazole derivatives**

L.0.0.0

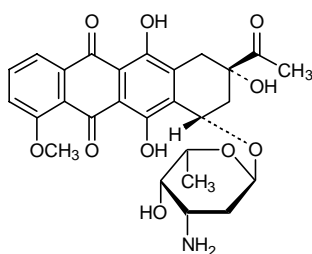


anastrozole (72), fadrozole (64), finrozole (81), letrozole (70), liarozole (64), vorozole (64)

USAN

-rubicin **antineoplastic antibiotics, daunorubicin derivatives**

L.5.0.0 (USAN: antineoplastic antibiotics (daunorubicin type))

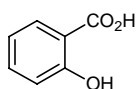


- (a) aclarubicin (44), amrubicin (65), carubicin (40), daunorubicin (20), detorubicin (41), doxorubicin (25), epirubicin (48) (originally pidorubicin (47)), esorubicin (47), galarubicin (80), idarubicin (47), ladirubicin (83), leurubicin (64), medorubicin (47), nemorubicin (71), pirarubicin (55), rodorubicin (54), sabarubicin (90), valrubicin (79), zorubicin (39)

USAN

sal **salicylic acid derivatives**

(USAN: -sal-; -sal; or sal-)



- (a) **sal-** analgesic anti-inflammatory A.4.2.0
 choline salicylate (15), imidazole salicylate (51), salacetamide (1), salcolex (23), saletamide (20), salfluverine (29), salicylamide (1), salnacedin (73), salprotoside (31), salsalate (28), salverine (15)

varioussalantel (29) (anthelmintic), salinazid (8) (antituberc.)**-sal** analgesic anti-inflammatory A.4.2.0

detanosal (23), diflunisal (33), fendosal (35), flufenisal (22), fosfosal (37), guacetisal (40), guaimesal (50), parcetasal (65), pranosal (24), sulprosal (36), tenosal (63)

antithrombotic

flufosal (42)

various: antituberc.

fenamisal (15), thiomersal (1) (disinfect.), triflusal (37) (antithrombotic)

-sal- analgesic anti-inflammatory A.4.2.0

acetaminosalol (1), acetylsalicylic acid (IP), carbasalate calcium (27), carsalam (13), etersalate (50), etosalamide (14), parsalimide (32), talosalate (43)

various

amotosalen (85), calcium benzamidosalicylate (10), homosalate (28) (sunscreen agent), lasalocid (30) (antibiotic. vet.), mersalyl (4) (mercurial diuretic), octisalate (83) (sunscreen), osalimid (15) (choloretic), xenysalate (12) (antiseborrheic)

salazo- phenylazosalicylic acid derivatives antibact. S.5.1.0

salazodine (22), salazosulfadimidine (11), salazosulfamide (1), salazosulfathiazole (1)

-salazine/-salazide

dersalazine (86), mesalazine (52), olsalazine (52), sulfasalazine (55), balsalazide (48), ipsalazide (48)

-salan brominated salicylamide derivatives disinfect. S.2.1.0

bensalan (18), dibromsalan (14), flusalan (16), fursalan (18), metabromsalan (16), tiosalan (18), tribromsalan (14)

(b)

non-salicylic acid derivativesmacrosalb (^{99m}Tc) (33), trioxysalen (16) (pigmenting agent)bronchodil.

levosalbutamol (78), salbutamol (20), salmefamol (23)

(c)

analgesic, anti-inflammatory A.4.2.0

aloxiprin (13), anilamate (13), benorilate (21), brosetamide (29), cresotamide (28), dibusadol (24), dipyracetyl (6), ethenzamide (10), fenamifuril (16), hydroxytoluic acid (17), sodium gentisate (1), sodium glucaspaldrate (17)

various4-aminosalicylates of the -caine series D.1.0.0: ambucaine (6), hydroxyprocaine (1), hydroxytetracaine (1), propoxycaine (4)antihypertensives H.3.0.0

labetalol (35)

antitussives K.1.0.0

alloclamide (16), flualamide (20)

saluretics N.1.2.0

xipamide (22) (sulfamoyl deriv.),

mercurial diuretics N.1.3.0

mercuderamide (1)

anthelmintics S.3.1.0

bromoxanide (31), clioxanide (19), niclosamide (13), rafoxanide (24)

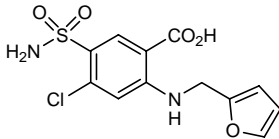
closantel (36), flurantel (25), resorantel (23)

antifungals S.4.0.0

buclosamide (16), exalamide (37), pentalamide (13)

See also Pharm S/Nom 557

		USAN
-sartan	angiotensin II receptor antagonists, antihypertensive (non-peptidic)	
H.3.0.0	abitesartan (73), candesartan (71), elisartan (72), embusartan (78), eprosartan (71), forasartan (74), irbesartan (71), losartan (66), milfasartan (76), olmesartan (80), pomisartan (73), prazosartan (85), ripisartan (73), saprisartan (72), tasosartan (72), telmisartan (70), valsartan (68), zolasartan (70)	

		USAN
-semide	diuretics, furosemide derivatives	
N.1.1.0		
(a)	azosemide (35), furosemide (14), galosemide (33), torasemide (35)	

-sermin **see -ermin**

-serod	serotonin receptor antagonists
J.0.0.0	
(a)	piboserod (79), sulamserod (82), tegaserod (79)

		USAN
-serpine (d)	derivatives of <i>Rauwolfia</i> alkaloids	
E.5.4.0		
(a)	bietaserpine (14), mefeserpine (15), reserpine (4)	
(c)	chloroserpidine (11), deserpidine (6), methoserpidine (11), metoserpate (20), rescimetol (44), rescinnamine (6), syrosingopine (10)	

USAN

-setron **serotonin receptor antagonists (5-HT₃) not fitting into other established groups of serotonin receptor antagonists**

(BAN: serotonin receptor antagonists (5HT₃) used as antihyper-tensives)

- (a) alosetron (66), azasetron (68), bemesetron (64), cilansetron (68), dolasetron (65), fabesetron (74), galdansetron (72), granisetron (59), indisetron (76), itasetron (68), lerisetron (69), lurosetron (69), mirisetron (72), ondansetron (59), palonosetron (74), ramosetron (70), ricasetron (70), tropisetron (62), zatoksetron (64)

USAN

som- **growth hormone derivatives**

Q.0.0.0

- (a) somagrebove (63), somalapor (62), somatosalm (69), somatrem (54), somatropin (56), somavubove (63), somenopor (62), somfasepor (66), sometribove (54), sometripor (55), somidobove (58)

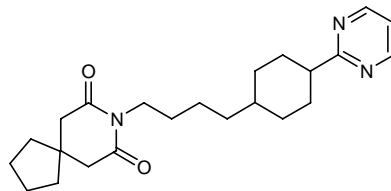
- (b) somatorelin (57), somantadine (51), somatostatin (46)

-sopine **see -pine**

USAN

-spirone **anxiolytics, buspirone derivatives**

C.1.0.0



- (a) alnespirone (70), binospirone (65), buspirone (30), enilospirone (52), perospirone (71), revospirone (61), tandospirone (60), tiospirone (57), umespirone (60), zalospirone (64)

- (c) eptapirone (82), gepirone (54), ipsapirone (54)

BAN, USAN

-stat- or **enzyme inhibitors**

-stat

(BAN: -stat: enzyme inhibitors)

-castat dopamine-hydroxylase inhibitors

nepicastat (78)

- elestat* elastase inhibitors
 freselestat (89), sivelestat (78)
- inostat* histone deacetylase inhibitors
 (a) dacinostat (89)
- listat* pancreatic lipase inhibitors
 (a) orlistat (66)
- mastat* matrix metalloproteinase inhibitors
 (a) batimastat (70), cipemastat (81), ilomastat (73), marimastat (75), prinomastat (82), rebimastat (89), solimastat (80), tanomastat (82)

-restat or aldose reductase inhibitors
-restat-

M.5.0.0

- (a) alrestatin (37), epalrestat (55), fidarestat (78), imirestat (59), lidorestat (87), minalrestat (76), ponalrestat (58), risarestat (82), tanomastat (82), tolrestat (51), zenarestat (64), zopalrestat (64)

***-vastatin* antihyperlipidaemic substances, HMG CoA reductase inhibitors**

H.4.0.0

- (a) atorvastatin (71), bervastatin (72), cerivastatin (74), crilva-statin (63), dalvastatin (64), fluvastatin (62), glenvastatin (70), lovastatin (57), mevastatin (44), pitavastatin (83) (replaces itavastatin (80)), pravastatin (57), rosuvastatin (83), simvastatin (58), tenivastatin (85)

proteolytic enzyme inhibitors: aloxistatin (57), ulinastatin (56); camostat (46), nafamostat (53), patamostat (69), sepimostat (68)

- various:
- azalanstat (73): lanosterol 14 α -demethylase inhibitor
 - febuxostat (85): xanthine oxidase and xanthine dehydrogenase inhibitor
 - benurestat (31): urease inhibitor
 - cilastatin (50): renal dehydropeptidase inhibitor
 - miglustat (85): glucosyltransferase inhibitor
 - nystatin (6): antifungal antibiotic
 - pentostatin (38): vidarabin activity potentiator; inhibitor of enzymatic deaminative metabolism
 - pepstatin (28): pepsin inhibitor
 - somatostatin (43): growth hormone release inhibiting factor
 - tendamistat (44): amylase inhibitor

vistatolon (25): antiviral antibiotic
 zinostatin (40): antineoplastic
 zinostatin stimalamer (74)

 BAN

-steine **mucoytics, other than bromhexine derivatives**

K.0.0.0 (BAN: substances of the acetylcysteine group)

(a) acetylcysteine (13), bencisteine (30), carbocisteine (34), cartasteine (72), dacisteine (49), danosteine (53), erdosteine (56), fudosteine (77), guaisteine (57), isalsteine (63), letosteine (38), mecysteine (13), midesteine (63), moguisteine (61), nesosteine (52), omonasteine (40), prenisteine (42), salmisteine (58), taurosteine (63), telmesteine (63)

 USAN

-ster- **androgens/anabolic steroids**

Q.2.3.1

(a) **-testosterone**: cloxotestosterone (12), methyltestosterone (4), testosterone (4), testosterone ketolaurate (16)

-sterone: bolasterone (13), fluoxymesterone (6), oxymesterone (12), prasterone (23), tiomesterone (14)

-ster-: mesterolone (15), penmesterol (14), rosterolone (59)

(b) progestational steroids

-gesterone: dydrogesterone (12), haloprogesterone (11), hydroxyprogesterone (8), medroxyprogesterone (10), norgesterone (14), progesterone (4), segesterone (89)

-sterone: dimethisterone (8), ethisterone (4), norethisterone (6), norvinisterone (10)

various: **-sterone**: aldosterone (6) (corticosteroid), calusterone (23) (antineoplastic)

-sterol: azacosterol (16) (hypocholesterolemic), dihydrotachy-sterol (1) (antihypoparathyroid), iodocholesterol (¹³¹I) (39)

ster: nisterime (38) (contragestational agent), stercuronium iodide (21) (neuromuscular blocking agent)

-(a)steride (USAN: testosterone reductase inhibitors) - antineoplastic

 bexlosteride (81), dutasteride (78), epristeride (69), finasteride (62), izonsteride (81), lapisteride (85), turosteride (67)

-stigmine (d) acetylcholinesterase inhibitors

E.1.2.0

- (a) distigmine bromide (16), eptastigmine (62), ganstigmine (81), neostigmine bromide (4), pyridostigmine bromide (6), quilostigmine (76), rivastigmine (77), terestigmine (77)
- (c) eseridine (53)

USAN

-stim colony stimulating factors

I.5.0.0

ancestim (79) (cell growth factor), garnocestim (85) (immunomodulator), pegacaristim (80) (megakaryocyte growth factor)

-distim combination of two different types of colony stimulating factors

- (a) milodistim (74), leridistim (80)

-grastim granulocyte colony stimulating factor (G-CSF) type substances

- (a) filgrastim (64), lenograstim (64), nartograstim (66), pegfilgrastim (85), pegnartograstim (80)

-gramostim granulocyte macrophage colony stimulating factor (GM-CSF) types substances

- (a) ecogramostim (62), molgramostim (64), regramostim (64), sargramostim (66)

-mostim macrophage stimulating factors (M-CSF) type substances

- (a) cilmostim (71), mirimostim (65)

-plestim interleukin-3 analogues and derivatives

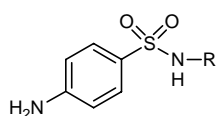
daniplestim (76), muplestim (72)

BAN, USAN

sulfa- anti-infectives, sulfonamides

S.5.1.0

(BAN: sulpha-)
(USAN: antimicrobial sulfonamides)

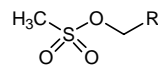


- (a) sulfabenz (17), sulfabenzamide (27), sulfacarbamide (12), sulfacecole (30), sulfacetamide (1), sulfachlorpyridazine (10), sulfachrysoidine (1), sulfacitine (23), sulfacloamide (17), sulfaclozole (25), sulfaclozine (25), sulfadiazole sodium (1), sulfadiazine (4), sulfadiazine sodium (4), sulfadicramide (4), sulfadimethoxine (10), sulfadimidine (1), sulfadoxine (20), sulfaethidole (8), sulfafurazole (1), sulfaguanidine (4), sulfaguanole (23), sulfalene (12), sulfaloxic acid (15), sulfamazone (40), sulfamerazine (4), sulfamerazine sodium (4), sulfamethizole (1), sulfamethoxazole (14), sulfamethoxypyridazine (8), sulfametomidine (12), sulfametoxydiazine (17), sulfametrole (31), sulfamonomethoxine (11), sulfamoxole (12), sulfanilamide (4), sulfanitran (15), sulfaperin (14), sulfaphenazole (10), sulfaproxyline (4), sulfapyrazole (18), sulfapyridine (1), sulfaquinolaxine (46), sulfasalazine (55), sulfasomizole (10), sulfasuccinamide (41), sulfasymazine (12), sulfathiazole (4), sulfathiourea (1), sulfatolamide (10), sulfatroxazole (29), sulfatrozole (24)
- (b) sulfarsphenamine (4)
- (c) benzylsulfamide (1), glucosulfamide (1), maleylsulfathiazole (1), mesulfamide (41), nitrosulfathiazole (1), phthalylsulfamethizole (6), phthalylsulfathiazole (1), salazodine (22), salazosulfa-dimidine (11), salazosulfamide (1), salazosulfathiazole (1), stearylsulfamide (1), succinylsulfathiazole (4), sulfisomidine (1), vanyldisulfamide (1), mafenide (1) (sulfonamide, but not sulfanilamide)

USAN

-sulfan antineoplastic, alkylating agents, methanesulfonates

L.2.0.0



- (a) busulfan (6), improsulfan (35), mannosulfan (24), piposulfan (15), ritrosulfan (33), treosulfan (26)

-tadine tricyclic histamine-H₁ receptor antagonists, tricyclic compounds

G.2.1.0

- (a) amantadine (15), azatadine (18), carmantadine (31), cyproheptadine (10), desloratadine (80), loratadine (54), napactadine (46), olopatadine (72), rimantadine (17), rupatadine (74), somantadine (51), tromantadine (28)

-tant neurokinin (tachykinin) receptor antagonists*-pitant* neurokinin NK₁ (substance P) receptor antagonist

- (a) aprepitant (84), dapitant (74), ezlopitant (82), figopitant (82), vofopitant (82), lanepitant (77), maropitant (90), netupitant (90), nолpitantium besilate (75)

-dutant neurokinin NK₂ receptor antagonist

nepadutant (78), saredutant (75)

-nertant neurotensin antagonist

meclinertant (88) (replaces reminertant (85))

-netant neurokinin NK₃ receptor antagonist

(a) osanetant (74), talnetant (81)

-tecan **antineoplastics, topoisomerase I inhibitors**

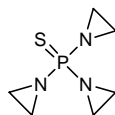
L.0.0.0 (USAN: anti-neoplastics (camptothecine derivatives))

afeletecan (85), diflomotecan (84), exatecan (81), exatecan alideximer (89), gimatecan (86), irinotecan (64), lurtotecan (74), mureletecan (85), rubitecan (82), topotecan (65)

USAN

-tepa **antineoplastics, thiotepa derivatives**

L.2.0.0 (USAN: antineoplastic thiotepa derivatives)



(a) azatepa (12), pumitepa (48), thiotepa (10)

-tepine **see -pine**

USAN

-teplase **tissue type plasminogen activators, see -ase item VI**

-termin **see -ermin**

BAN, USAN

-terol (x) bronchodilators, phenethylamine derivatives

(previously (USAN: bronchodilators (phenethylamine derivatives))

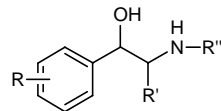
-prenaline

or

-terenol

unofficial)

E.4.0.0



- (a) amiterol (26), bambuterol (49), bitolterol (34), broxaterol (51), carbuterol (29), cimaterol (54), clenbuterol (28), colterol (36), difeterol (36), divabuterol (51), etanterol (53), fenoterol (26), formoterol (44), imoxiterol (52), mabuterol (46), naminterol (53), nardeterol (62), picumeterol (64), pirbuterol (30), procatерol (37), reproterol (30), rimiterol (26), salmeterol (55), sulfonterol (31), tobuterol (45), tulobuterol (40), zilpaterol (60), zinterol (38)

cardiac stimulants:

metaterol (43), prenalterol (38), xamoterol (48); clorprenaline (17), hexoprenaline (21), isoprenaline (1), levisoprenaline (10), metiprenaline (24), orciprenaline (14), quinprenaline (17)

deterenol (25), soterenol (20)

- (b) azacosterol (16), dihydrotachysterol (1), penmesterol (14)
- (c) dioxethedrine (6), isoetarine (13), methoxyphenamine (1), pseudoephedrine (11), salbutamol (20), salmefamol (23), terbutaline (22)

-terone antiandrogens

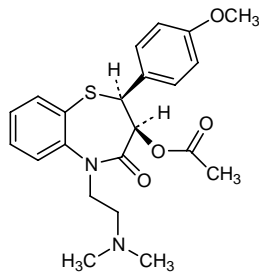
(Q.2.3.1)

- (a) abiraterone (74), benorterone (15), cyproterone (16), delanterone (42), inocoterone (54), osaterone (68), zanoterone (67)
- (b) oxendolone (42)
- (c) clometerone (15) (anti-estrogen)

USAN

-tiazem **calcium channel blockers, diltiazem derivatives**

F.2.1.0



clentiazem (61), diltiazem (30), iprotiazem (56), nictiazem (54), siratiazem (68)

USAN

-tide **peptides and glycopeptides (for special groups of peptides see -actide, -pressin, -relin, -tocin)**analgesic: leconotide (86), ziconotide (78)angiogenesis inhibitor: cilengitide (81)anti-inflammatory: icrocaptide (89)antibiotic: nosiheptide (35)antidepressant: nemifitide (87)antidiabetic: amlintide (76), liraglutide (87), seglitide (57), pramlintide (74)antidiarrhoeal: lagatide (75)antithrombotic: eptifibatide (78)angiotensin convers. inhibitor: teprotide (36)atrial natriuretic factor type substance: anaritide (57), neseritide (80), ularitide (69)cardiac stimulant: carperitide (65)diagnostic: betiatide (58), bibapcitide (78), ceruletide (34), depreotide (80), mertiatide (60), pendetide (70), technetium (^{99m}Tc) apcitide (78), teriparatide (50)gastro-intestinal bleeding/antineoplastic: edotreotide (84), ilatreotide (66), lanreotide (64), octreotide (52), pentetreotide (66), vapreotide (62)gastro-intestinal functions normalizing agent: teduglutide (90)gut motility increasing: ociltide (52)

immunomodulator: almurtide (74), edratide (89), goralatide (72), murabutide (49), pentigetide (60), pimelautide (53), prezatide copper acetate (67), romurtide (61), tabilautide (60), temurtide (60), tiplimotide (82)

inhibition of growth hormone release: pasireotide (90)

neuromodulator: ebiratide (56)

peptic ulcer: sulglicotide (29), triletide (50)

pulmonary surfactant: lusupultide (80), sinapultide (78)

sedative: emideltide (70)

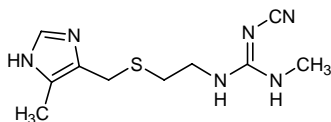
treatment of Parkinson's disease: doreptide (58), pareptide (38)

- (b) defibrotide (44) (nucleotide), diamfenetide (28) (fasciolicide), diclometide (19) (behaviour modifier), fludroxycortide (12), glisentide (58)

BAN, USAN

-tidine (x) histamine-H₂-receptor antagonists, cimetidine derivatives

G.2.0.0 (BAN: H₂-receptor antagonists of the cimetidine group)
(USAN: H₂-receptor antagonists (cimetidine type))



- (a) bisfentidine (57), cimetidine (33), dalcotidine (76), donetidine (56), ebrotidine (57), etintidine (44), famotidine (48), lafutidine (70), lamtidine (48), lavoltidine (61) (previously loxtidine (48)), lupitidine (53), mifentidine (50), niperotidine (54), nizatidine (48), osutidine (76), oxmetidine (44), pibutidine (78), quisultidine (47) (replaced by quisultazine (51)), ramixotidine (55), ranitidine (41), roxatidine (54), sufotidine (54), tiotidine (44), tuvatidine (54), venritidine (67), zaltidine (54)
- (b) benzethidine (9), furethidine (9), guanethidine (11), hexetidine (6), hydroxypethidine (5), pethidine (4), propinetidine (12)
- azacitidine (40) (antineoplastic)
- (c) metiamide (30)

-tiline see -triptiline

-tinib **tyrosine kinase inhibitors**

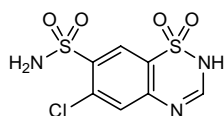
L.0.0.0

- (a) canertinib (87), erlotinib (85), gefitinib (85), imatinib (86), lapatinib (89), mubritinib (90)

-tirelin **see -relin****-tizide** **diuretics, chlorothiazide derivatives**

USAN

N.1.2.1 (USAN: thiazide: diuretics (thiazide derivatives))

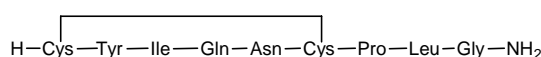


- (a) altizide (13), bemetizide (27), butizide (13), carmetizide (30), epitizide (13), hydrobentizide (14), mebutizide (15), paraflutizide (16), penflutizide (29), sumetizide (20)
- (c) bendroflumethiazide (11), benzthiazide (10), chlorothiazide (8), cyclopenthiiazide (12), cyclothiazide (12), disulfamide (11), ethiazide (14), flumethiazide (10), hydrochlorothiazide (10), hydroflumethiazide (10), methyclothiazide (11), polythiazide (12), teclothiazide (12), trichlormethiazide (11)

-tocin **oxytocin derivatives**

USAN

Q.1.2.0

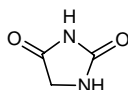


- (a) argiprestocin (13), aspartocin (11), carbetocin (45), cargutocin (35), demoxytocin (22), nacartocin (49), oxytocin (13)

-toin (d) **antiepileptics, hydantoin derivatives**

USAN

A.3.1.1



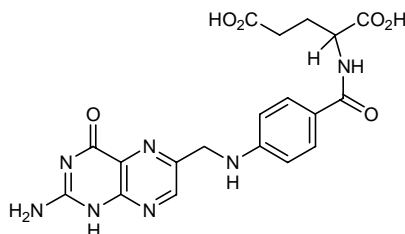
- (a) albutoin (13), doxenitoin (31), ethotoin (6), fosphenytoin (62), mephentoin (1), metetoin (12), phenytoin (4)
- ropitoin (40) (H.2.0.0.)
- (b) clodantoin (13) (antifungal), nitrofurantoin (11) (antibact.)

-trakin **see -kin**

USAN

-trexate (x) **folic acid analogues**

L.4.0.0 (USAN: folic acid analogues used as antimetabolites)



(a) edatrexate (61), ketotrexate (50), methotrexate (10), trimetrexate (46)

USAN

-tricin **antibiotics, polyene derivatives**

S.6.2.0

(a) mepartricin (34), partricin (27)

(b) tyrothricin (1)

(c) amphotericin B (10), candicidin (17), filipin (20), hachimycin (23), hamycin (17), levorin (15), mocimycin (28), natamycin (15), nystatin (6), pecilocin (16)

-triptan **serotonin (5HT₁) receptor agonists, sumatriptan derivatives**

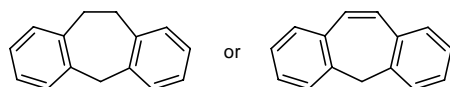
(a) almotriptan (76), avitriptan (76), donitriptan (82), eletriptan (74), frovatriptan (78), naratriptan (69), oxitriptan (39), rizatriptan (75), sumatriptan (59), zolmitriptan (74)

(c) alniditan (72)

USAN

-triptyline **antidepressants, dibenzo[a,d]cycloheptane or cycloheptene derivatives**

C.3.2.0 (USAN: antidepressants (dibenzo[a,d]cycloheptane derivatives))



(a) amitriptyline (11), butriptyline (16), cotriptyline (26), intriptyline (26), nortriptyline (12), octriptyline (33), protriptyline (14), amitriptylinoxide (36), demexiptiline (43), levoprotiline (56), noxiptiline (20), oxaprotiline (45), setiptiline (56)

(b) oxitriptyline (21) (anticonvuls.)

(c) hepzidine (15)

see also Pharm S/Nom 970

-troban **thromboxane A₂-receptor antagonists; antithrombotic agents**

I.2.1.0

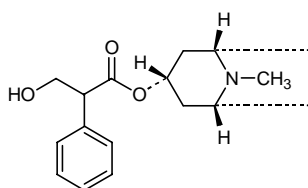
argatroban (57), daltroban (57), domitroban (73), ifetroban (71), linotroban (69), mipitroban (73), ramatroban (73), sulotroban (55)

-trodast **see -ast**

USAN

trop **atropine derivatives**

E.2.0.0 (USAN: trop- ; or -trop-)



(a) parasympatholytic/anticholinergic: E.2.2.0:
tertiary amines:

atropine oxyde (12), benzatropine (4), decitropine (18), etybenzatropine (12), eucatropine (1), tropatepine (28), tropicamide (11), tropigline (8), tropodifene (18)

closely related:

esbatropate (65)

quaternary ammonium salts:

atropine methonitrate (4), butropium bromide (30), ciclotropium bromide (50), cimetroplum bromide (51), flutropium bromide (50), homatropine methylbromide (1), ipratropium bromide (28), octatropine methylbromide (10), oxitropium bromide (36), phenactropinium chloride (8), ritropirronium bromide (33), sevotropium mesilate (56), sintropium bromide (47), sultroponium (18), tematropium metilsulfate (64), tiotropium bromide (67), tipetropium bromide (42), tropenziline bromide (11), xenytropium bromide (15)

various:

clobenztropine (13) (antihistaminic), cyheptropine (15) (antiarrhythmic), deptropine (12) (antiasthmatic), revatropate (74) (bronchodilator), tropabazate (41) (tranquillizer), tropanserine (55), tropapride (48) (antipsychotic), tropirine (20) (respiratory disorders), tropisetron (62)

- (b) dextropropoxyphene (7), somatropin (56)
- (c) parasympatholytic/anticholinergic, tertiary amines:
poskine (8), prampine (11), tigloidin (14)
- various:
zepastine (26) (antihistaminic)

-uplase **urokinase type plasminogen activator, see -ase item VII**

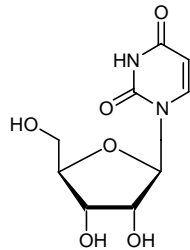
-ur **see –uridine**

-uridine **uridine derivatives used as antiviral agents and as antineoplastics**

USAN

S.5.3.0

L.4.0.0



L.4.0.0: broxuridine (30), doxifluridine (44)

related: carmofur (45), clanfenur (58), tegafur (41)

S.5.3.0: fialuridine (68), floxuridine (16), idoxuridine (17), navuridine (84), trifluridine (37)

-vudine (USAN: vudine: antineoplastics; antivirals (zidovudine type))

related: alovudine (68), brivudine (59), clevudine (78), edoxudine (52), epervudine (61), fozivudine tidoxil (73), lamivudine (66), netivudine (72), sorivudine (64), stavudine (65), telbivudine (88), zidovudine (56)

-vaptan **vasopressin receptor antagonists**

H.0.0.0

- (a) conivaptan (82), lixivaptan (83), mozavaptan (87), relcovaptan (82), tolvaptan (83)

-vastatin **see -stat**

 BAN, USAN
-verine (x) spasmolytics with a papaverine-like action

F.1.0.0 (USAN: spasmolytics having a papaverine-like action)

- (a) alverine (16), amifloverine (28), bietamiverine (6), butaverine (13), camiverine (29), caroverine (28), clofeverine (31), demelverine (17), denaverine (25), dexsecoverine (53), dicycloverine (6), dihexyverine (4), dipiproverine (10), diproteverine (51), drotaverine (17), elziverine (57), ethaverine (4), febuverine (27), fenoverine (28), floverine (28), heptaverine (16), ibuverine (21), idaverine (55), mebeverine (14), milverine (52), mofloverine (28), moxaverine (36), nafiverine (16), niceverine (15), octaverine (18), pargeverine (38), pentoxyverine (6), pramiverine (21), prenoverine (41), propiverine (45), rociverine (33), salfluverine (29), salverine (15), secoverine (38), temiverine (76), zardaverine (59)

fenpiverinium bromide (26), pinaverium bromide (32)

- (b) cinnamaverine (10) (anticholinergic, tert. amine), diaveridine (18)

- (c) spasmolytics chemically related to some of the above INN ending in *-verine*

butetamate (17), butinoline (14), camylofin (12), cinnamedrine (19), cyclandelate (8), difemerine (17), diisopromin (11), dimoxylin (1), fenpiprane (17), fenyramidol (12), metindizate (16), oxybutynin (13), papaveroline (29), pentapiperide (10), prozapine (14), triclazate (10), tropenziline bromide (11)

 USAN
vin- and vinca alkaloids**-vin- (x)**

(USAN: vin-; or -vin-)

- (a) B.1.0.0 stim. of cerebrovasc. circul.
apovincamine (48), brovincamine (42), vinburnine (45), vincamine (22), vincanol (37), vincantril (51), vinconate (47), vindeburnol (49), vinmegallate (59), vinpocetin (36), vinpoline (35), vintoperol (61)

L.5.0.0 cytostatic

vinblastine (12), vincristine (13), vindesine (35), vinepidine (50), vinflumine (76), vinformide (38), vinfosiltine (64), vinglycinate (16), vinleucinol (64), vinleur (13), vinorelbine (57), vinrosidine (13), vintriptol (51), vinzolidine (46)

- (b) barbiturates

vinbarbital (1), vinylbital (12)

others: vincofos (28) (phosphate, anthelmintic), vintiamol (16) (vit. B. deriv., antineuralgic)

BAN, USAN

vir **antivirals (undefined group)**

S.5.3.0 (USAN: -vir; -vir; or vir-)

(a) aciclovir (42), adefovir (72), alvircept sudotox (69), amdoxovir (85), amitvir (67), atevirdine (69), buciclovir (52), capravirine (83), cidofovir (72), ciluprevir (90), dapivirine (86), delavirdine (71), denotivir (70), desciclovir (55), detivaciclovir (86), efavirenz (78), emivirine (82), enfuvirtide (85), enviradene (49), enviroxime (44), etravirine (88), famciclovir (61), ganciclovir (56), litomeglovir (84), loviride (70), maribavir (80), nevirapine (66), omaciclovir (84), opaviraline (83), penciclovir (61), pirodavir (63), ribavirin (31), roxiclovir (62), rupintrivir (88), talviraline (75), tenofovir (82), tiviciclovir (86), tivirapine (74), tomeglovir (84), trovirdine (73), valaciclovir (69), valganciclovir (78), valomaciclovir (84), viroxime (49), zinviroxime (44)

-amivir neuraminidase inhibitors: oseltamivir (80), peramivir (86), zanamivir (72)

-cavir carbocyclic nucleosides: abacavir (76), entecavir (82), lobucavir (72)

-fovir phosphonic acid derivatives: adefovir (72), alamifovir (89), cidofovir (72), tenofovir (82)

-gosivir glucoside inhibitors: celgosivir (77)

-navir HIV protease inhibitors: amprenavir (79), atazanavir (88), darunavir (88), droxinavir (74), fosamprenavir (83), indinavir (74), lasinavir (76), lopinavir (80), mozenavir (84), nelfinavir (76), palinavir (74), ritonavir (74), saquinavir (69), telinavir (73), tipranavir (80)

USAN

-virsen **antisense oligonucleotides**

(a) afovirsen (70), fomivirsen (75), trecovirsen (77)

(b) virginiamycin (18), viridofulvin (16)

(c) avridine (50)

-vos **see -fos**

-vudine **see -uridine**

-xaban **blood coagulation factor X_A inhibitors, antithrombotics**

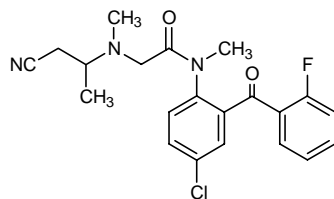
(a) otamixaban (86), rivaroxaban (90), razaxaban (90)

-xanox **see -ox/-alox**

-yzine **see -izine**

-zafone **alozafone derivatives**

C.1.1.0.0



(a) alozafone (40), avizafone (64), ciprazafone (50), dinazafone (46), dulozafone (56), lorzafone (48), oxazafone (45), rilmazafone (55)

-zepine **see -pine**

-zone **see -buzone**

ANNEX 1

INNs for monoclonal antibodies

The following stem system was adopted by the members of the Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations designated to deal with the selection of nonproprietary names for naming monoclonal antibodies.

I. **General stem:** *-mab*

II. **Sub-stems for source of product:**

<i>u</i>	human
<i>o</i>	mouse
<i>a</i>	rat
<i>e</i>	hamster
<i>i</i>	primate
<i>xi</i>	chimeric
<i>zu</i>	humanized

The distinction between chimeric and humanized antibodies is as follows:

A chimeric antibody is one that contains contiguous foreign-derived amino acids comprising the entire variable region of both heavy and light chains linked to heavy and light constant regions of human origin.

A humanized antibody has segments of foreign-derived amino acids interspersed among variable region segments of human-derived amino acid residues and the humanized heavy-variable and light-variable regions are linked to heavy and light constant regions of human origin.

III. Sub-stems for disease or target class:

-ba(c)-	bacterial
-ci(r)-	cardiovascular
-le(s)-	inflammatory lesions
-li(m)-	immunomodulator
-vi(r)-	viral

tumours:

-co(l)-	colon
-go(t)-	testis
-go(v)-	ovary
-ma(r)-	mammary
-me(l)-	melanoma
-pr(o)-	prostate
-tu(m)-	miscellaneous

Whenever there is a problem in pronunciation, the final letter of the sub-stems for diseases or targets may be deleted, e.g. -vi(r)-, -ba(c)-, -li(m)-, -co(l)-, etc.

IV. Prefix:

Should be random e.g. the only requirement is to contribute to a euphonious and distinctive name.

V. Second word:

If the product is radiolabelled or conjugated to another chemical, such as toxin, identification of this conjugate is accomplished by use of a separate, second word or acceptable chemical designation.

If the monoclonal antibody is used as a carrier for a radioisotope, the latter will be listed first in the INN, e.g. technetium (^{99m}Tc) pintumomab.

VI. -toxa- infix:

For monoclonals conjugated to a toxin, the infix -toxa- can be inserted either into the first (main) name or included in the second word.

ANNEX 2

PROCEDURE FOR THE SELECTION OF RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES*

The following procedure shall be followed by the World Health Organization in the selection of recommended International Nonproprietary Names for pharmaceutical substances, in accordance with the World Health Assembly resolution WHA3.11:

1. Proposals for recommended international nonproprietary names shall be submitted to the World Health Organization on the form provided therefor.

2. Such proposals shall be submitted by the Director-General of the World Health Organization to the members of the Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations designated for this purpose, for consideration in accordance with the “General principles for guidance in devising International Nonproprietary Names”, appended to this procedure. The name used by the person discovering or first developing and marketing a pharmaceutical substance shall be accepted, unless there are compelling reasons to the contrary.

3. Subsequent to the examination provided for in article 2, the Director-General of the World Health Organization shall give notice that a proposed international nonproprietary name is being considered.

A. Such notice shall be given by publication in the *Chronicle of the World Health Organization*¹ and by letter to Member States and to national pharmacopoeia commissions or other bodies designated by Member States.

(i) Notice may also be sent to specific persons known to be concerned with a name under consideration.

B. Such notice shall:

(i) set forth the name under consideration;

(ii) identify the person who submitted a proposal for naming the substance, if so requested by such person;

(iii) identify the substance for which a name is being considered;

(iv) set forth the time within which comments and objections will be received and the person and place to whom they should be directed;

(v) state the authority under which the World Health Organization is acting and refer to these rules of procedure.

C. In forwarding the notice, the Director-General of the World Health Organization shall request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the proposed name during the period it is under consideration by the World Health Organization.

4. Comments on the proposed name may be forwarded by any person to the World Health Organization within four months of the date of publication, under article 3, of the name in the *Chronicle of the World Health Organization*.

5. A formal objection to a proposed name may be filed by any interested person within four months of the date of publication, under article 3, of the name in the *Chronicle of the World Health Organization*.

Such objection shall:

- (i) identify the person objecting;
- (ii) state his interest in the name;
- (iii) set forth the reasons for his objection to the name proposed.

6. Where there is a formal objection under article 5, the World Health Organization may either reconsider the proposed name or use its good offices to attempt to obtain withdrawal of the objection. Without prejudice to the consideration by the World Health Organization of a substitute name or names, a name shall not be selected by the World Health Organization as a recommended international nonproprietary name while there exists a formal objection thereto filed under article 5 which has not been withdrawn.

7. Where no objection has been filed under article 5, or all objections previously filed have been withdrawn, the Director-General of the World Health Organization shall give notice in accordance with subsection A of article 3 that the name has been selected by the World Health Organization as a recommended international nonproprietary name.

8. In forwarding a recommended international nonproprietary name to Member States under article 7, the Director-General of the World Health Organization shall:

- A. request that it be recognized as the nonproprietary name for the substance; and
- B. request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the name, including prohibiting registration of the name as a trade-mark or trade-name.

*Text adopted by the Executive Board of WHO in resolution EB15.R7 (*Off. Rec. Wld Health Org.*, 1955, **60**, 3) and amended by the Board in resolution EB43.R9 (*Off. Rec. Wld Hlth Org.*, 1969, **173**, 10).

1. The title of this publication was changed to *WHO Chronicle* in January 1959. From 1987 onwards lists of INNs are published in *WHO Drug Information*.

ANNEX 3

GENERAL PRINCIPLES FOR GUIDANCE IN DEVISING INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES*

1. International Nonproprietary Names (INN) should be distinctive in sound and spelling. They should not be inconveniently long and should not be liable to confusion with names in common use.
2. The INN for a substance belonging to a group of pharmacologically related substances should, where appropriate, show this relationship. Names that are likely to convey to a patient an anatomical, physiological, pathological or therapeutic suggestion should be avoided.

These primary principles are to be implemented by using the following secondary principles:

3. In devising the INN of the first substance in a new pharmacological group, consideration should be given to the possibility of devising suitable INN for related substances, belonging to the new group.
4. In devising INN for acids, one-word names are preferred; their salts should be named without modifying the acid name, e.g. "oxacillin" and "oxacillin sodium", "ibufenac" and "ibufenac sodium".
5. INN for substances which are used as salts should in general apply to the active base or the active acid. Names for different salts or esters of the same active substance should differ only in respect of the name of the inactive acid or the inactive base.

For quaternary ammonium substances, the cation and anion should be named appropriately as separate components of a quaternary substance and not in the amine-salt style.

6. The use of an isolated letter or number should be avoided; hyphenated construction is also undesirable.
7. To facilitate the translation and pronunciation of INN, "f" should be used instead of "ph", "t" instead of "th", "e" instead of "ae" or "oe", and "i" instead of "y"; the use of the letters "h" and "k" should be avoided.
8. Provided that the names suggested are in accordance with these principles, names proposed by the person discovering or first developing and marketing a pharmaceutical preparation, or names already officially in use in any country, should receive preferential consideration.
9. Group relationship in INN (see Guiding Principle 2) should if possible be shown by using a common stem. The following list contains examples of stems for groups of substances, particularly for new groups. There are many other stems in active use.¹ Where a stem is shown without any hyphens it may be used anywhere in the name.

<i>Latin</i>	<i>English</i>	
-acum	-ac	anti-inflammatory agents, ibufenac derivatives
-adolum	-adol)	analgesics
-adol-	-adol-)	
-astum	-ast	antiasthmatic, antiallergic substances not acting primarily as antihistaminics
-astinum	-astine	antihistaminics
-azepamum	-azepam	diazepam derivatives
bol	bol	anabolic steroids
-cain-	-cain-	class I antiarrhythmics, procainamide and lidocaine derivatives
-cainum	-caine	local anaesthetics
cef-	cef-	antibiotics, cephalosporanic acid derivatives
-cillinum	-cillin	antibiotics, 6-aminopenicillanic acid derivatives
-conazolium	-conazole	systemic antifungal agents, miconazole derivatives
cort	cort	corticosteroids, except prednisolone derivatives
-coxibum	-coxib	selective cyclo-oxygenase inhibitors
-entanum	-entan	endothelin receptor antagonists
gab	gab	gabamimetic agents
gado-	gado-	diagnostic agents, gadolinium derivatives
-gatrimum	-gatan	thrombin inhibitors, antithrombotic agents
gest	gest	steroids, progestogens
gli	gli	antihyperglycaemics
io-	io-	iodine-containing contrast media
-metacinum	-metacin	anti-inflammatory substances, indometacin derivatives
-mycinum	-mycin	antibiotics, produced by <i>Streptomyces</i> strains
-nidazolium	-nidazole	antiprotozoals, metronidazole derivatives
-ololum	-olol	β -adrenoreceptor antagonists
-oxacinum	-oxacin	antibacterials, nalidixic acid derivatives
-platinum	-platin	antineoplastic agents, platinum derivatives
-poetinum	-poetin	erythropoietin type blood factors
-pril(at)um	-pril(at)	angiotensin-converting enzyme inhibitors
-profenium	-profen	anti-inflammatory substances, ibuprofen derivatives
prost	prost	prostaglandins
-relinum	-relin	pituitary hormone release-stimulating peptides
-sartanum	-sartan	angiotensin II receptor antagonists, antihypertensive (non-peptidic)
-vaptanum	-vaptan	vasopressin receptor antagonists
vin-	vin-)	vinca alkaloids
-vin-	-vin-)	

* In its twentieth report (WHO Technical Report Series, No. 581, 1975), the WHO Expert Committee on Nonproprietary Names for Pharmaceutical Substances reviewed the general principles for devising, and the procedures for selecting, international nonproprietary names (INN) in the light of developments in pharmaceutical compounds in recent years. The most significant change has been the extension to the naming of synthetic chemical substances of the practice previously used for substances originating in or derived from natural products. This practice involves employing a characteristic "stem" indicative of a common property of the members of a group. The reasons for, and the implications of, the change are fully discussed.

Reference to the volumes of the *WHO Drug Information* in which the respective proposed lists of INNs have been published:

List no. and reference

1	<i>Chron. Wld Hlth Org.</i> 7 : 299 (1953)
2	<i>Chron. Wld Hlth Org.</i> 8 : 216 (1954)
3	<i>Chron. Wld Hlth Org.</i> 9 : 313 (1954)
4	<i>Chron. Wld Hlth Org.</i> 10 : 28 (1956)
5	<i>Chron. Wld Hlth Org.</i> 11 : 231 (1957)
6	<i>Chron. Wld Hlth Org.</i> 12 : 102 (1958)
7	<i>WHO chronicle</i> 13 : 105 (1959)
8	<i>WHO chronicle</i> 13 : 152 (1959)
9	<i>WHO chronicle</i> 14 : 168 (1960)
10	<i>WHO chronicle</i> 14 : 244 (1960)
11	<i>WHO chronicle</i> 15 : 314 (1961)
12	<i>WHO chronicle</i> 16 : 385 (1962)
13	<i>WHO chronicle</i> 17 : 389 (1963)
14	<i>WHO chronicle</i> 18 : 433 (1964)
15	<i>WHO chronicle</i> 19 : 446 (1965)
16	<i>WHO chronicle</i> 20 : 216 (1966)
17	<i>WHO chronicle</i> 21 : 70 (1967)
18	<i>WHO chronicle</i> 21 : 478 (1967)
19	<i>WHO chronicle</i> 22 : 112 (1968)
20	<i>WHO chronicle</i> 22 : 407 (1968)
21	<i>WHO chronicle</i> 23 : 183 (1969)
22	<i>WHO chronicle</i> 23 : 418 (1969)
23	<i>WHO chronicle</i> 24 : 119 (1970)
24	<i>WHO chronicle</i> 24 : 413 (1970)
25	<i>WHO chronicle</i> 25 : 123 (1971)
26	<i>WHO chronicle</i> 25 : 415 (1971)
27	<i>WHO chronicle</i> 26 : 121 (1972)
28	<i>WHO chronicle</i> 26 : 414 (1972)
29	<i>WHO chronicle</i> 27 : 120 (1973)
30	<i>WHO chronicle</i> 27 : 380 (1973)
31	<i>WHO chronicle</i> 28 : 133 (1974)
32	<i>WHO chronicle</i> 28 : No. 9, suppl. (1974)
33	<i>WHO chronicle</i> 29 : No. 3, suppl. (1975)
34	<i>WHO chronicle</i> 29 : No. 9, suppl. (1975)
35	<i>WHO chronicle</i> 30 : No. 3, suppl. (1976)
36	<i>WHO chronicle</i> 30 : No. 9, suppl. (1976)
37	<i>WHO chronicle</i> 31 : No. 3, suppl. (1977)
38	<i>WHO chronicle</i> 31 : No. 9, suppl. (1977)
39	<i>WHO chronicle</i> 32 : No. 3, suppl. (1978)
40	<i>WHO chronicle</i> 32 : No. 9, suppl. (1978)
41	<i>WHO chronicle</i> 33 : No. 3, suppl. (1979)
42	<i>WHO chronicle</i> 33 : No. 9, suppl. (1979)
43	<i>WHO chronicle</i> 34 : No. 3, suppl. (1980)
44	<i>WHO chronicle</i> 34 : No. 9, suppl. (1980)
45	<i>WHO chronicle</i> 35 : No. 3, suppl. (1981)
46	<i>WHO chronicle</i> 35 : No. 5, suppl. (1981)
47	<i>WHO chronicle</i> 36 : No. 2, suppl. (1982)
48	<i>WHO chronicle</i> 36 : No. 5, suppl. (1982)
49	<i>WHO chronicle</i> 37 : No. 2, suppl. (1983)

List no. and reference

50	<i>WHO chronicle</i> 37 : No. 5, suppl. (1983)
51	<i>WHO chronicle</i> 38 : No. 2, suppl. (1984)
52	<i>WHO chronicle</i> 38 : No. 4, suppl. (1984)
53	<i>WHO chronicle</i> 39 : No. 1, suppl. (1985)
54	<i>WHO chronicle</i> 39 : No. 4, suppl. (1985)
55	<i>WHO chronicle</i> 40 : No. 1, suppl. (1986)
56	<i>WHO chronicle</i> 40 : No. 5, suppl. (1986)
57	<i>WHO drug information</i> 1 : No. 2 (1987)
58	<i>WHO drug information</i> 1 : No. 3 (1987)
59	<i>WHO drug information</i> 2 : No. 2 (1988)
60	<i>WHO drug information</i> 2 : No. 4 (1988)
61	<i>WHO drug information</i> 3 : No. 2 (1989)
62	<i>WHO drug information</i> 3 : No. 4 (1989)
63	<i>WHO drug information</i> 4 : No. 2 (1990)
64	<i>WHO drug information</i> 4 : No. 4 (1990)
65	<i>WHO drug information</i> 5 : No. 2 (1991)
66	<i>WHO drug information</i> 5 : No. 4 (1991)
67	<i>WHO drug information</i> 6 : No. 2 (1992)
68	<i>WHO drug information</i> 6 : No. 4 (1992)
69	<i>WHO drug information</i> 7 : No. 2 (1993)
70	<i>WHO drug information</i> 7 : No. 4 (1993)
71	<i>WHO drug information</i> 8 : No. 2 (1994)
72	<i>WHO drug information</i> 8 : No. 4 (1994)
73	<i>WHO drug information</i> 9 : No. 2 (1995)
74	<i>WHO drug information</i> 9 : No. 4 (1995)
75	<i>WHO drug information</i> 10 : No. 2 (1996)
76	<i>WHO drug information</i> 10 : No. 4 (1996)
77	<i>WHO drug information</i> 11 : No. 2 (1997)
78	<i>WHO drug information</i> 11 : No. 4 (1997)
79	<i>WHO drug information</i> 12 : No. 2 (1998)
80	<i>WHO drug information</i> 12 : No. 4 (1998)
81	<i>WHO drug information</i> 13 : No. 2 (1999)
82	<i>WHO drug information</i> 13 : No. 4 (2000)
83	<i>WHO drug information</i> 14 : No. 2 (2000)
84	<i>WHO drug information</i> 14 : No. 4 (2000)
85	<i>WHO drug information</i> 15 : No. 2 (2001)
86	<i>WHO drug information</i> 16 : No. 1 (2002)
87	<i>WHO drug information</i> 16 : No. 2 (2002)
88	<i>WHO drug information</i> 17 : No. 1 (2003)
89	<i>WHO drug information</i> 17 : No. 3 (2003)
90	<i>WHO drug information</i> 18 : No. 1 (2004)

Lists 1-85 of proposed INN are included in *Cumulative List* No. 10, WHO, Geneva, 2002 (available in CD-ROM only)

WHY INNs?

Since the number of drug substances being registered during the last decades is constantly increasing, there is a strong need to ensure the identification of each pharmaceutical compound by a unique, universally available and accepted name. The existence of an international nomenclature system for pharmaceutical products is crucial for the clear identification, safe prescription and dispensing of medicines to patients, and for communication and exchange of information among health professionals and scientists worldwide.

An **International Nonproprietary Name (INN)** identifies a pharmaceutical substance by a **unique name that is globally recognized and is public property**. A nonproprietary name is also known as a generic name. Generic names are intended to be used in pharmacopoeias, labeling, advertising, drug regulation and scientific literature.

WHO has a constitutional mandate to offer recommendations to its Member States on any matter that falls within its competence. This includes setting norms and standards for pharmaceutical products moving in international commerce.

The INN system as it exists today was initiated in 1950 by the *World Health Assembly resolution WHA3.11* and began operating in 1953, when the first list of International Nonproprietary Names for pharmaceutical substances was published.

So far, some 8000 names have been designated as INNs, and this number is growing every year by some 120 – 150 new INNs.

INNs are selected in close collaboration with national nomenclature commissions (e.g. BAN *British Approved name*, JAN *Japanese Accepted Name*, USAN *United States Adopted Name* etc.). Today, the INN Committee assumes the leading role in assigning generic names to drug substances. Instances where a national generic name for a new pharmaceutical substance is different from the INN are rare exceptions.

As unique names, INNs have to be distinctive in sound and spelling, and should not be liable to confusion with other names in common use (e.g. trade marks). To make INNs universally available they are formally placed by WHO in the public domain, hence their designation as “nonproprietary”. They can be used without any restriction whatsoever to identify pharmaceutical substances. The clear depiction of INNs on labels assures that prescribers and users alike can easily identify the nature of the pharmacologically active substance in a brand product. The use of INNs is already common in research and clinical documentation, while the importance of the programme is growing further due to the expanding use of generic names for pharmaceutical products.