International Non-Proprietary Names for Pharmaceutical Preparations

In accordance with paragraph 3 of the Procedure for the Selection of Recommended International Non-Proprietary Names for Pharmaceutical Preparations, notice is hereby given that the following names are under consideration by the World Health Organization as Proposed International Non-Proprietary Names.

Comments on, or formal objections to, the

proposed names may be forwarded by any person to the Pharmaceutical unit of the World Health Organization within four months of the date of their publication in the WHO Chronicle.

The inclusion of a name in the lists of proposed international non-proprietary names. does not imply any recommendation for the use of the substance in medicine or pharmacy.

Proposed International Non-Proprietary Names (Prop. I.N.N.): List 13 ²

Proposed International Non-Proprietary Name

Chemical Name or Description

(Latin, English) aceclidinum

3-quinuclidinol acetate

aceclidine acetiaminum acetiamine

N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-N-(4-hydroxy-2mercapto-1-methyl-1-butenyl)formamide O,S-diacetate

acetryptinum acetryptine

3-(2-aminoethyl)indol-5-yl methyl ketone

acetylcysteinum

N-acetylcysteine

acetylcysteine

N-(2,3-dichlorophenyl)anthranilic acid

acidum clofenamicum clofenamic acid

acidum flufenamicum flufenamic acid

N- $(\alpha,\alpha,\alpha$ -trifluoro-m-tolyl)anthranilic acid

acidum fusidicum

an antibiotic substance obtained from cultures of Fusidium coccineum. or the same substance produced by any other means

fusidic acid acidum fyticum

phytic acid

fytic acid

acidum iotalamicum 5-acetamido-2,4,6-triiodo-N-methylisophthalamic acid

iotalamic acid acidum kainicum

2-carboxy-4-isopropenyl-3-pyrrolidineacetic acid

kainic acid

¹ See Annex, p. 398.

^{1959, 13, 106, 463; 1962, 16, 101.}

Chemical Name or Description

acidum mefenamicum mefenamic acid N-2,3-xylylanthranilic acid

acidum nalidixicum nalidixic acid

1-ethyl-1.4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid

acrisorcinum acrisorcin 9-aminoacridine compound with 4-hexylresorcinol

alazani triclofenas alazanine triclofenate 3-ethyl-2-[3-(3-ethyl-2-benzothiazolinylidene)propenyl]

benzothiazolium 2,4,5-trichlorophenoxide compound with 2,4,5-

trichlorophenol

albutoinum albutoin 3-allyl-5-isobutyl-2-thiohydantoin

aloxiprinum aloxiprin

altizidum

basic aluminium acetylsalicylate complex

altizide ambomycinum

ambomycin

3-[(allylthio)methyl]-6-chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-

an antibiotic substance obtained from cultures of Streptomyces ambofaciens, or the same substance produced by any other means

amfepramonum amfepramone

2-(diethylamino)propiophenone

7-sulfonamide 1,1-dioxide

ampicillinum ampicillin

(-)-6-(2-amino-2-phenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid

ampyriminum ampyrimine 2,4,7-triamino-5-phenylpyrimido [4.5-d] pyrimidine

anazolenum natricum sodium anazolene 4-[(4-anilino-5-sulfo-1-naphthyl)azo]-5-hydroxy-2,7-naphthalenedisulfonic acid, trisodium salt

anilamatum anilamate

methylcarbamate of salicylanilide

argipressinum argipressin 8-argininevasopressin

argiprestocinum argiprestocin

8-arginineoxytocin

azotomycinum azotomycin

an antibiotic substance obtained from cultures of *Streptomyces* ambofaciens, or the same substance produced by any other means

batilolum 3-(octadecyloxy)-1,2-propanediol batilol

benfotiaminum benfotiamine

N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-N-(4-hydroxy-2-mercapto-1-methyl-1-butenyl)formamide S-benzoate O-phosphate

bentiaminum bentiamine N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-N-(4-hydroxy-2-mercapto-1-methyl-1-butenyl)formamide O,S-dibenzoate

benzaronum benzarone 2-ethyl-3-benzofuranyl p-hydroxyphenyl ketone

benzbromaronum benzbromarone 3,5-dibromo-4-hydroxyphenyl 2-ethyl-3-benzofuranyl ketone

benzilonii bromidum benzilonium bromide

1.1-diethyl-3-hydroxypyrrolidinium bromide benzilate

Chemical Name or Description

benzodepum benzodepa benzyl [bis(1-aziridinyl)phosphinyl]carbamate

benzquinamidum benzquinamide

N, N-diethyl-1,3,4,6,7,11b-hexahydro-2-hydroxy-9,10-dimethoxy-2H-

benzo[a]quinolizine-3-carboxamide acetate

betahistinum

2-[(2-methylamino)ethyl]pyridine

betahistine

betanidinum 1-benzyl-2,3-dimethylguanidine

betanidine

betoxycainum 2-[2-(diethylamino)ethoxy]ethyl 3-amino-4-butoxybenzoate

betoxycaine

4,4'-(2-pyridylmethylene)diphenol diacetate

bisacodylum bisacodyl

bisacodyl

bisbentiamınım N,N'-{dıthiobis[2-(2-hydroxyethyl)-1-methylvinylene]} bisbentiamine bis{N[(4-amino-2-methyl-5-pyrimidinyl)methyl]formamide}

bolasteronum 7a,17-dimethyltestosterone

bromacrylidum N[(3-bromopropionamido)methyl]acrylamide

bromacrylide

bufenadrinum 2-(o-tert-butyl-a-phenylbenzyloxy)-N,N-dimethylethylamine

bufenadrine

butaperazinum 1-\[10-[3-(4-methyl-1-piperazinyl)propyl]phenothiazin-2-yl\]-1-butanone

butaperazine

butyl-3-(3-phenyl-1-piperidyl)propionate

butaverinum butaverine

butizidum 3-isobutyl-6-chloro-3,4-dihydro-2*H*-1,2,4-benzothiadiazine-

butizide 7-sulfonamide 1,1-dioxide

butopiprinum 2-butoxyethyl a-phenyl-2-piperidineacetate

butopiprine

carsalamum 2H-1,3-benzoxazine-2,4(3H)-dione

carsalam

clefamidum 2,2-dichloro-N-2-hydroxyethyl-N-[p-(p-nitrophenoxy)benzyl]acetamide

clefamide

clobenztropinum 3-(p-chloro-a-phenylbenzyloxy)tropane

clobenztropine

clodacainum 2'-chloro-2-[(2-diethylaminoethyl)ethylamino]acetanilide

clodacame

clodantoinum 5-(1-ethylpentyl)-3-(trichloromethylthio)hydantoin

clodantoin

clofenamidum 4-chloro-m-benzenedisulfonamide

clofenamide

clofibratum ethyl 2-(p-chlorophenoxy)-2-methylpropionate

clofibrate

clonitratum 3-chloro-1,2-propanediol dinitrate

clonitrate

Chemical Name or Description

clopamidum 4-chloro-N-(cis-2,6-dimethylpiperidino)-3-sulfamoylbenzamide clopamide

cloralum betainum chloral hydrate compound with betaine

cloral betaine

cloramfenicoli pantotenas chloramphenicol complex with calcium pantothenate cloramfenicol pantotenate

clorindionum 2-(p-chlorophenyl)-1,3-indanedione

clorindione

cloxacillinum 6-[3-(o-chlorophenyl)-5-methyl-4-isoxazolecarboxamido]-3,3-dimethyl-cloxacillin 7-oxo-4-thia-1-azabicyclo[3,2,0]heptane-2-carboxylic acid

colecalciferolum cholecalciferol

colecalciferol

coumetarolum 4,4'-dihydroxy-3,3'-(2-methoxyethylidene) dicoumarin coumetarol

cyamemazinum 10-[3-(dimethylamino)-2-methylpropyl]phenothiazine-2-carbonitrile cyamemazine

cyclarbamatum 1,1-cyclopentanedimethanol dicarbanilate

cyclarbamate

cycloguanili embonas 4,6-diamino-1-(p-chlorophenyl)-1,2-dihydro-2,2-dimethyl-s-triazine cycloguanil embonate compound (2:1) with 4,4'-methylenebis[3-hydroxy-2-naphthoic acid]

cyclomenolum 2-cyclohexyl-3,5-xylenol cyclomenol

cyclovalonum 2,6-divanillylidenecyclohexanone cyclovalone

desipraminum 10,11-dihydro-5-(3-methylaminopropyl)-5*H*-dibenz[*b,f*]azepine desipramine

dexoxadrolum (+)-2-(2,2-diphenyl-1,3-dioxolan-4-yl)piperidine

dexoxadrol (+) = (3)= diplodify x30 dioxolair + 37/piperidile

diclofenamidum 4,5-dichloro-*m*-benzenedisulfonamide diclofenamide

dietroxinum 5,5-diethyldihydro-2*H*-1,3-oxazine-2,4(3*H*)-dione

dietroxine
difenidolum

a,a-diphenyl-1-piperidinebutanol

difenidol
dimefadanum

N.N-dimethyl-3-phenyl-1-indanamine

dimefadanum N,N-dimethyl-3-phenyl-1-indanamine dimefadane

dimetindenum 2-{1-[2-(2-dimethylaminoethyl)inden-3-yl]ethyl}pyridine dimetindene

dioxadrolum 2-(2,2-diphenyl-1,3-dioxolan-4-yl)piperidine dioxadrol

dıpyridamolum 2,2',2"',2"'-[(4,8-dipiperidinopyrimido[5,4-d]pyrimidine-2,6-diyl)

dipyridamole dinitrilo]tetraethanol

doxapramum 1-ethyl-4-(2-morpholinoethyl)-3,3-diphenyl-2-pyrrolidinone

doxapram
drostanolunum
17β-hydroxy-2α-methyl-5α-androstan-3-one

drostanolunum 1/β-nydroxy-2α-methyl-5α-androstan-3-one drostanolone

Chemical Name or Description

duazomycinum duazomycin

an antibiotic substance obtained from cultures of Streptomyces ambofaciens, or the same substance produced by any other means

efloxatum

ethyl[(4-oxo-2-phenyl-4H-1-benzopyran-7-yl)oxy]acetate

efloxate` epitizidum epitizide

6-chloro-3,4-dihydro-3-{[(2,2,2-trifluoroethyl)thio]methyl}-2H-

1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide

eritrityli tetranıtras eritrityl tetranitrate

erythritol tetranitrate

ethylestrenolum

17α-ethyl-19-nor-pregn-4-en-17-ol

ethylestrenol etoxazenum

4-[(p-ethoxyphenyl)azo]-m-phenylenediamine

etoxazene etymemazinum etymemazine

10-(3-dimethylamino-2-methylpropyl)-2-ethylphenothiazine

etynodioli acetas etynodiol acetate

19-nor-17α-pregn-4-en-20-ync-3β,17-diol diacetate

felypressinum

2-(phenylalanine)-8-lysinevasopressin

felypressin fenbenicillinum fenbenicillin.

3,3-dimethyl-7-oxo-6-(2-phenoxy-2-phenylacetamido)-thia-

fencarbamidum fencarbamide

1-azabicyclo[3.2.0.]heptane-2-carboxylic acid S-2-diethylaminoethyl diphenylthiocarbamate

fenyripolum fenyripol

2-(2-pyrimidinylaminomethyl)benzyl alcohol

fluanisonum fluanisone

4'-fluoro-4-[4-(o-methoxyphenyl)-1-piperazinyl]butyrophenone

flumetasonum flumetasone

6a,9-difluoro-11β,17,21-trihydroxy-16a-methylpregna-1,4-diene-3,20-dione

fluorouracilum fluorouracil

5-fluorouracil

fluperolonum fluperolone

9-fluoro-11\(\beta\),17,21-trihydroxy-21-methylpregna-1,4-diene-3,20-dione 21-acetate

fluprednisolonum fluprednisolone

6a-fluoro-11β,17,21-trihydroxypregna-1,4-diene-3.20-dione

flurotylum

bis(2,2.2-trifluoroethyl) ether

flurotyl furalazınum 🗼

3-amino-6-[2-(5-nitro-2-furyl)vinyl]-as-triazine

furalazine

3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone

furazolidonum furazolidone

galantamınum galantamine

1,2,3,4,6,7,7a,11c-octahydro-9-methoxy-2-methylbenzofuro [4,3,2-efg][2]benzazocin-6-ol

glucaloxum

glucalox

glycerol complex with aluminium hydroxide

glypinamidum glypinamide

1-(p-chlorophenylsulfonyl)-3-(hexahydro-1H-azepin-1-yl)urea

Chemical Name or Description

hexadilinum 2-(2,2-dicyclohexylvinyl)piperidine

hexadiline

hexamidinum 4,4'-(hexamethylenedioxy)dibenzamidine

hexamidine

hexopyrronii bromidum

hexopyrronium bromide

1,1-dimethylpyrrolidinium bromide α-phenylcyclohexane glycolate 1-(p-chlorobenzoyl)-5-methoxy-2-methylindole-3-acetic acid

indometacinum indometacin

iproclozidum p-chlorophenoxyacetic acid 2-isopropylhydrazide

iproclozide

isoetarinum a-(1-isopropylaminopropyl)protocatechuyl alcohol

isoetarine

itramini tosylas 3 2-aminoethanol nitrate(ester)p-toluenesulfonate

glutamine

itramin tosylate

kitasamycinum an antibiotic substance obtained from cultures of Streptomyces kitasa-

kitasamycin toensis, or the same substance produced by any other means leiopyrrolum 1-[o-[2-(diethylamino)ethoxy]phenyl]-2-methyl-5-phenylpyrrole

leiopyrrole levoglutamidum

levoglutamide

(-)-2-(2,2-diphenyl-1,3-dioxolan-4-yl)piperidine

levoxadrolum levoxadrol

lincomycinum an antibiotic substance obtained from cultures of Streptomyces lincomycin

lincolnensis, or the same substance produced by any other means an antibiotic substance obtained from cultures of Streptomyces lucensis,

lucimycin or the same substance produced by any other means

lynestrenolum 19-nor-17a-pregn-4-en-20-yn-17-ol

lynestrenol

lucimycinum

lypressinum 8-lysinevasopressin

lypressin

mecloxaminum 2-[(p-chloro-α-methyl-α-phenylbenzyl)oxy]-N, N-dimethylpropylamine

mecloxamine

mecysteinum methyl ester of cysteine

mecysteine

megestrolum 17-hydroxy-6-methylpregna-4,6-diene-3,20-dione

megestrol

melengestrolum 17-hydroxy-6-methyl-16-methylenepregna-4,6-diene-3,20-dione

melengestrol

menotrophinum menotrophin

meraleinum natricum o-[6-hydroxy-5-(hydroxymercuri)-2,7-diiodo-3-oxo-3H-xanthen-9-yl]

human menopausal gonadotrophin

sodium meralein benzenesulfonic acid, sodium salt

meturedepum [bis(2,2-dimethyl-1-aziridinyl)phosphinyl]carbamic acid ethyl ester

meturedepa

³ Itramin is the proposed International Non-proprietary Name for the substance having the chemical name "aminorthyl nitrate" (Prop. I.N.N., List 1)

Chemical Name or Description

metyraponum metyrapone

2-methyl-1,2-di-3-pyridyl-1-propanone

molinazonum

3-morpholino-1,2,3-benzotriazin-4(3H)-one

molinazone morinamidum

morinamide

N-(morpholinomethyl)pyrazinecarboxamide

nafcillinum nafcillin

6-(2-ethoxy-1-naphthamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo

[3.2.0]heptane-2-carboxylic acid

naloxonum 12-allyl-7,7a,8,9-tetrahydro-3,7a-dihydroxy-4aH-8,9c-iminoethano-

naloxone phenanthro[4,5-bcd]furan-5(6H)-one

natrii bitionolas disodium 2,2'-thiobis(4,6-dichlorophenoxide)

sodium bitionolate natrii etasulfas

2-ethylhexyl sodium sulfate

sodium etasulfate sodium metrizoate

natrii metrizoas sodium 3-acetamido-2,4,6-triiodo-5-N-methylacetamidobenzoate

natrii radio-iodidum (131])

sodium radio-iodide (1311)

natrii timerfonas ethyl[(p-sulfophenyl)thio]mercury, sodium salt

sodium timerfonate niclosamidum

2',5-dichloro-4'-nitrosalicylanilide

niclosamide

nonapyriminum 4-nonylamino-7H-pyrrolo[2,3-d]pyrimidine

nonapyrimine noretynodrelum

17-hydroxy-17a-pregn-5(10)-en-20-yn-3-one

noretynodrel octotiaminum

8-{[2-[N-[(4-amino-2-methyl-5-pyrimidinyl)methyl]formamido]-

1-(2-hydroxyethyl)propenyl]dithio}-6-mercaptooctanoic acid, methyl

ester acetate

ortetaminum ortetamine

octotiamine

o, a-dimethylphenethylamine

oxazepamum

7-chloro-1,3-dihydro-3-hydroxy-5-phenyl-2*H*-1,4-benzodiazepin-2-one

oxazepam oxetacainum

2,2'-(2-hydroxyethylimino)bis[N-(α , α -dimethylphenethyl)-N-

oxetacaine methylacetamide]

10-[3-(dimethylamino)-2-methylpropyl]phenothiazine, 5,5-dioxide

oxomemazinum oxomemazine

oxonazinum N^2 , N^2 -diallylmelamine N^2 -oxide

oxonazine

4-diethylamino-2-butynyl a-phenylcyclohexaneglycolate

oxybutyninum oxybutynin

I-methyl-3-piperidyl a-phenylcyclohexaneglycolate

oxyclipinum oxyclipine

oxyfenamatum

 β -ethyl- β -hydroxyphenethyl carbamate

oxyfenamate

Chemical Name or Description

oxymetazolinum oxymetazoline 6-tert-butyl-3-(2-imidazolin-2-ylmethyl)-2,4-dimethylphenol

oxypendylum oxypendyl 4-[3-(10*H*-pyrìdo[3,2-*b*][1,4]benzothiazın-10-yl)propyl]-1-piperazıneethanol

oxypyrronii bromidum

2-(2-hydroxyethyl)-1,1-dimethylpyrrolidinium bromide

oxypyrronium bromide

a-phenylcyclohexaneglycolate

oxytocinum

oxytocin

oxytocin

pargylinum N-methyl-N-2-propynylbenzylamine

pargyline

paxamatum 4-biphenylyl methylcarbamate

paxamate

pentabamatum 3-methyl-2,4-pentanediol dicarbamate

pentabamate

pentalamidum o-(pentyloxy)benzamide

pentalamide periciazinum

10-[3-(4-hydroxypiperidino)propyl]phenothiazine-2-carbonitrile

periciazine

picloxydinum 1,1'-[1,4-piperazinediylbis(imidocarbonyl)]bis[3-(p-chlorophenyl)

guanidine]

picloxydine pimetinum

4-benzyl-1-(2-dimethylaminoethyl)piperidine

<u>pimetine</u>

poldini methylsulfas poldine methylsulfate

1-methyl-2-pyrrolidinemethanol benzilate methylsulfate

prednisolamatum prednisolamate

11β,17,21-trihydroxypregna-1,4-diene-3,20-dione 21-N,N-diethylglycine ester

prednylidenum prednylidene

 11β ,17,21-trihydroxy-16-methylenepregna-1,4-diene-3,20-dione

propetandrolum propetandrol 19-nor-17α-pregn-4-ene-3β,17-diol 3-propionate

propicillinum propicillin

3,3-dimethyl-7-oxo-6-(2-phenoxybutyramido)-4-thia-1-azabicyclo

[3.2.0.]heptane-2-carboxylic acid

prosultiaminum N-[4-amino-2-methyl-5-pyrimidinyl)methyl]-N-[4-hydroxy-1-methyl-prosultiamine 2-(propyld)thio)-1-butenyl] formamide

pyrrocainum 1-pyrrolidineacetanilide

pyrrocaine quingestronum

3-(cyclopentyloxy)pregna-3,5-dien-20-one

quingestrone

radio-aurum (198Au)-colloidale radio gold (198Au) colloidal

radio gold (198Au) colloidal radiocyanocobalaminum (60Co)

radiocyanocobalamin (**Co)

radiotolpovidonum (131]) radiotolpovidone (131])

vitamın B₁₂ containing radioactive cobalt

 ω -(p-iodo-¹³¹I-benzyI)-2-(2-oxo-1-pyrrolidinyl)ethamer (derivative of p-toluidine polyvinylpyrrolidone obtained by partial iodization with ¹³¹I)

renytolinum renytoline

a-fluoren-9-ylidene-p-toluamid:ne

Chemical Name or Description

rifamycinum rifamycin

sparsomycinum sparsomycin

sparteinum sparteine

spectinomycinum spectinomycin

stilbazii iodidum stilbazium iodide streptoniazidum

streptoniazid

sucraloxum sucralox

sultiamum sultiame teclozanum

teclozan tiabendazolum

tiabendazole

tiemondii iodidum tiemonium iodide tifenamilum

tifenamil tolpropaminum

tolpropamine tolpyrramidum tolpyrramide

triclofosum triclofos

trımetamidum trimetamide

trimipraminum trimipramine trometamolum

trometamol troxonii tosylas troxonium tosylate

troxypyrrolii tosylas troxypyrrolium tosylate

tyloxapolum tyloxapol uramustinum

uramustine uredepum

uredepa

an antibiotic substance obtained from cultures of Streptomyces mediterranei, or the same substance produced by any other means

an antibiotic substance obtained from cultures of Streptomyces sparsogenes, or the same substance produced by any other means

sparteine

an antibiotic substance obtained from cultures of Streptomyces spectabilis, or the same substance produced by any other means

1-ethyl-2,6-bis(p-1-pyrrolidinylstyryl)pyridinium iodide

isonicotinic acid hydrazide, hydrazone with streptomycin

sucrose complex with aluminium hydroxide

benzenesulfonamide p-(tetrahydro-2H-1,2-thiazin-2-yl)-S,S-dioxide

N,N'-(p-phenylenedimethylene)bis[2,2-dichloro-N-(2-ethoxyethyl) acetamidel

2-(4-thiazoly)benzimidazole

4-[3-hydroxy-3-phenyl-3-(2-thienyl)propyl]-4-methylmorpholinium

iodide

S-(2-diethylamino)ethyl diphenylthioacetate

N, N-dimethyl-3-phenyl-3-(p-tolyl)propylamine

N-p-tolylsulfonyl-1-pyrrolidinecarboxamide

2,2,2-trichloroethyl dihydrogen phosphate

N-(2-amino-6-methyl-3-pyridylmethyl)-3,4.5-trimethoxybenzamide

10,11-dihydro-5-(3-dimethylamino-2-methylpropyl)-5H-dibenz[b,f] azepine

2-amino-2-(hydroxymethyl)-1,3-propanediol

triethyl(2-hydroxyethyl)ammonium p-toluenesulfonate 3,4,5-trimethoxybenzoate

1-ethyl-1-(2-hydroxyethyl)pyrrolidinium p-toluenesulfonate 3,4,5trimethoxybenzoate

polymer of p-(1,1,3,3-tetramethylbutyl)phenol with ethylene glycol and formaldehyde

5-[bis(2-chloroethyl)amino]uracil

ethyl[bis(1-aziridinyl)phosphinyllearbamate

Chemical Name or Description

vincristinum

an alkaloid obtained from Vinca rosea

vincristine

vinleurosinum an alkaloid obtained from Vinca rosea

vinleurosine

vinrosidinum an alkaloid obtained from Vinca rosea

vinrosidine

virgimycin

virginycinum an antibiotic substance obtained from cultures of Streptomyces virginiae,

or the same substance produced by any other means

NOTE

aminophenazonum replaces

aminophenazone

amidopyrinum amidopyrine

(Chron. Wld Hlth Org., 1956, 10, 28)

ergocalciferolum ergocalciferol replaces

calciferolum calciferol

(Chron. Wld Hlth Org., 1956, 10, 28; WHO Chronicle, 1959, 13, 463)

Annex

PROCEDURE FOR THE SELECTION OF RECOMMENDED INTERNATIONAL NON-PROPRIETARY NAMES FOR PHARMACEUTICAL PREPARATIONS *

The following procedure shall be followed by the World Health Organization in the selection of recommended international non-proprietary names for pharmaceutical preparations, in accordance with the World Health Assembly resolution WHA3.11:

- 1. Proposals for recommended international non-proprietary 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 Non-proprietary Names", appended to this procedure. The name used by the person discovering or first developing and marketing a pharmaceutical preparation 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 non-proprietary name is being considered.
 - A. Such notice shall be given by publication in WHO Chronicle 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.

^{*} Text adopted by the Executive Board of WHO in resolution EB15.R7 (Off. Rec. Wid Hith Org., 1955, 60, 3).

- 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 WHO Chronicle.
- 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 WHO Chronicle.
 - A. 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 non-proprietary 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 non-proprietary name.
- 8. In forwarding a recommended international non-proprietary name to Member States under article 7, the Director-General of the World Health Organization shall:
 - A. request that it be recognized as the non-proprietary 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.

General Principles for Guidance in Devising International Non-Proprietary Names for Pharmaceutical Preparations *

- 1. Names should be distinctive in sound and spelling. They should not be inconveniently long and should not be liable to confusion with names already in common use.
- 2. The name for a substance belonging to a group of pharmacologically related substances should show this relationship. The name should be free from any anatomical, physiological, pathological or therapeutic suggestion.

The above primary principles are to be implemented by utilization of the following secondary principles.

- 3. In devising the name of the first substance in a new pharmacological group (the parent substance), consideration should be given to the possibility of devising suitable names for related substances belonging to the new group.
- 4. Syllables such as "methylhydro" and "chlor" should preferably be abbreviated (to "medro" and "clo", etc.).
- 5. Names 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). Exceptions may have to be made for those cases in which pharmacological activity may reside in both parts of the salt or ester.

^{*} As revised in November 1961 by the Sub-Committee on Non-Proprietary Names of the Expert Committee on Specifications for Pharmaceutical Preparations (unpublished report WHO/Pharm/394).

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 translation and pronunciation "f" should preferably be used instead of "ph", "t" instead of "th", and "e" instead of "ae" or "oe".
- 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 names (see item 2) should preferably be shown by using common syllables in the following list. The syllables should, if possible, be used only for such substances.

Subsidiary group relationships should be shown by devising names which show similarities to and are analogous with a previously named substance, the parent substance.

At the end of the list are general chemical syllables. Should they come into conflict with other suggested syllables, the suffix conveying the best information should be used.

Latin	English	French	
	-andr-)	-andr-	
	or -stan- }	or -stan- }	steroids, androgenic
	or -ster-	or -ster-	
-arolum	-arol	-arol	anticoagulants
-barbum	-barb	-barbe	barbituric acids
-cainum	-caine	-caïne	local anaesthetics of the procaine type
-cillinum	-cillin	-cilline	penicillins: derivatives of carboxy-6-amino-penicillanic acid
	-cort-	-cort-	steroids, glucocotticoids and mineralocorticoids, other than prednisolone derivatives
-crinum	-crine	-crine	acridine derivatives, antimicrobial
-curinum	-curine	-curine	curare-like drugs
-cyclinum	-cycline	-cycline	antibiotics, tetracycline derivatives
-dionum	-dione	-dione	antiepileptics derived from oxazolidinedione
	-estr-	-estr-	estrogenic drugs
	-gest-	-gest-	steroids, progestative
	gly-	gly-	antidiabetics, oral
	-mer-	-mer-	mercury-containing drugs, antimicrobial or diuretic
-mycinum	-mycin	-mycine	antibiotics, produced by Streptomyces strains
-quinum	-quine	-quine	quinoline derivatives, used as antimalarials
-stigminum	-stigmine	-stigmine	anticholinesterases
	sulfa-	sulfa-	sulfonamides, used as antimicrobials
-toinum	-toin	-toīne	antiepileptics which are hydantoin-derivatives
-verinum	-verine	-vérine	spasmolytics with a papaverine-like action
-olum -alum	-oI	-ol	alcohols and phenols (-OH group)
	-al	-a1	aldehydes
-inum	-ine	-ine	alkaloids and organic bases
-onum -onium	-one	-one	ketones and other substances containing the CO group
	-onium	-onium	quaternary amines
-anum	-ane	-ane	saturated hydrocarbons
-enum	-ene	-ène	unsaturated hydrocarbons