Reprinted from
WHO Chronicle, Vol. 16, No. 10, October 1962, pp 385-396

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,[1] 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 from 1 October 1962.

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 12[2]

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
acetohexamidum acetohexamide	1-(*p*-acetylphenylsulfonyl)-3-cyclohexylurea
acidum aminocaproicum aminocaproic acid	6-aminohexanoic acid
acidum foscolicum foscolic acid	2,2′-phosphinicodilactic acid
aconiazidum aconiazide	isonicotinic acid [*o*-(carboxymethoxy)benzylidene] hydrazide
amfecloralum amfecloral	α-methyl-*N*-(2,2,2-trichloroethylidene)phenethylamine
amfomycinum amfomycin	an antibiotic produced by *Streptomyces canus* or the same substance produced by any other means
angiotensinamidum angiotensinamide	*N*-{1-[*N*-{*N*-[*N*-{*N*-[*N*-(*N*^{2}-asparaginylarginyl)valyl]tyrosyl}valyl}histidyl]prolyl}-3-phenylalanine
aprofenum aprofene	2-diethylaminoethyl 2,2-diphenylpropionate hydrochloride
atropini oxydum atropine oxide	atropine *N*-oxide
azatepum azatepa	*P*,*P*-bis(1-aziridinyl)-N-ethyl-N-(1,3,4-thiadiazol-2-yl)-phosphinic amide

[1] See Annex, p. 393

[2] Other lists of proposed international non-proprietary names can be found in *Chron. Wld Hlth Orz.*, 1953, 7, 299; 1954, 8, 216, 313; 1956, 10, 28; 1957, 11, 231; 1958, 12, 102, *WHO Chronicle*, 1959, 13, 105, 152; 1960, 14, 168, 244; 1961, 15, 314.
Lists of recommended international non-proprietary names were published in *Chron. Wld Hlth Org.* 1955, 9, 185; *WHO Chronicle*, 1959, 13, 106, 463; 1962, 16, 101.

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
azathioprinum azathioprine	6-(1-methyl-4-nitroimidazol-5-ylthio)purine
bamipinum bamipine	4-(*N*-benzylanilino)-1-methylpiperidine
bendazolum bendazol	2-benzylbenzimidazole
benzindopyrinum benzindopyrine	1-benzyl-3-[2-(4-pyridinyl)ethyl]indole hydrochloride
benzopyrronii bromidum benzopyrronium bromide	1,1-dimethyl-3-hydroxypyrrolidinium bromide benzilate
benzpiperylonum benzpiperylone	4-benzyl-1-(1-methyl-4-piperidinyl)-3-phenyl-3-pyrazolin-5-one
bibenzonii bromidum bibenzonium bromide	[2-(1,2-diphenylethoxy)ethyltrimethyl]ammonium bromide
bromchlorenonum bromchlorenone	6-bromo-5-chloro-2-benzoxazolinone
brometenaminum brometenamine	equimolecular complex of bromoform and hexamethylenetetramine
bromindionum bromindione	2-(*p*-bromophenyl)-1,3-indandione
broxaldinum broxaldine	5,7-dibromo-2-methyl-8-quinolinol benzoate ester
broxyquinolinum broxyquinoline	5,7-dibromo-8-quinolinol
bucetinum bucetin	3-hydroxy-*p*-butyrophenetidide
butamoxanum butamoxane	2-(butylaminomethyl)-1,4-benzodioxane
butynaminum butynamine	*N*-*tert*-butyl-*N*,1,1-trimethyl-2-propynylamine
camylofinum camylofin	*N*-(2-diethylaminoethyl)-2-phenylglycine isopentyl ester
capreomycinum capreomycin	an antibiotic substance obtained from cultures of *Streptomyces capreolus*, or the same substance produced by any other means
carfenazinum carfenazine	1-{10-[3-[4-(2-hydroxyethyl)-1-piperazinyl]-propyl]phenothiazin-2-yl}-1-propanone dimaleate
cetoximum cetoxime	2-*N*-benzylanilinoacetamidoxime
chloracyzinum chloracyzine	2-chloro-10-(3-diethylaminopropionyl)phenothiazine
chloralodolum chloralodol	2-methyl-4-(2,2,2-trichlor-1-hydroxyethoxy)-2-pentanol
chlormadinoni acetas chlormadinone acetate	6-chloro-17-hydroxypregna-4,6-diene-3,20-dione acetate
chloroprednisoni acetas chloroprednisone acetate	6α-chloro-17,21-dihydroxypregna-1,4-diene-3,11,20-trione 21-acetate

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
chlorproethazinum chlorproethazine	2-chloro-10-(3-diethylaminopropyl)phenothiazine
chlortalidonum chlortalidone	2-chloro-5-(1-hydroxy-3-oxo-1-isoindolinyl)-benzenesulfonamide
cintramidum cintramide	3,4,5-trimethoxycinnamamide
cismadinoni acetas cismadinone acetate	6α-chloro-17-hydroxypregna-1,4-diene-3,20-dione acetate
clofedanolum clofedanol	2-chloro-α-(2-dimethylaminoethyl)benzhydrol
clofenetaminum clofenetamine	2-(*p*-chloro-α-methyl-α-phenylbenzyloxy)triethylamine
clometocillinum clometocillin	6-[2-(3,4-dichlorophenyl)-2-methoxyacetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]-heptane-2-carboxylic acid OR (3,4-dichloro-α-methoxybenzyl)penicillin
clomifenum clomifene	2-[*p*-(β-chloro-α-phenylstyryl)phenoxy]triethylamine
clopenthixolum clopenthixol	4-[3-(2-chlorothiaxanthen-9-ylidene)propyl]-1-piperazineethanol
cloxestradioli acetas cloxestradiol acetate	17β-(2,2,2-trichloro-1-hydroxyethoxy)estra-1,3,5(10)-trien-3-ol diacetate
cloxotestosteroni acetas cloxotestosterone acetate	17β-(2,2,2-trichloro-1-hydroxyethoxy)androst-4-en-3-one acetate
cyclobutyrolum cyclobutyrol	α-ethyl-1-hydroxycyclohexaneacetic acid
cyclopenthiazidum cyclopenthiazide	6-chloro-3-cyclopentyl-3,4-dihydro-2*H*-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide
cyclopyrronii bromidum cyclopyrronium bromide	1-ethyl-3-hydroxy-1-methylpyrrolidinium bromide α-cyclopentylphenylacetate
cyclothiazidum cyclothiazide	6-chloro-3,4-dihydro-3-(5-norbornen-2-yl)-2*H*-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide
defosfamidum defosfamide	*N*,*N*-bis(2-chloroethyl)-*N'*-(3-hydroxypropyl)phosphorodiamidic acid 2-chloroethyl ester
deptropinum deptropine	3-{10,11-dihydro-5*H*-dibenzo[*a*,*d*] cyclohepten-5-yloxy}tropane
dextrothyroxinum natricum sodium dextrothyroxine	sodium D-3,3',5,5'-tetraiodothyronine OR sodium D-3-[4-(4-hydroxy-3,5-diiodophenoxy)-3,5-diiodophenyl]alanine
diazepamum diazepam	7-chloro-1,3-dihydro-1-methyl-5-phenyl-2*H*-1,4, benzodiazepin-2-one
diazoxidum diazoxide	7-chloro-3-methyl-2*H*-1,2,4-benzothiadiazine-1,1-dioxide
difencloxazinum difencloxazine	4-[2-(*p*-chloro-α-phenylbenzyloxy)ethyl]morpholine

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
dimethadionum dimethadione	5,5-dimethyl-2,4-oxazolidinedione
dioxamatum dioxamate	(2-methyl-2-nonyl-1,3-dioxolan-4-yl)methyl carbamate
diprofenum diprofene	2-dipropylaminoethyl diphenylthioacetate
disopyramidum disopyramide	α-(2-diisopropylaminoethyl)-α-phenyl-2-pyridine acetamide
droxypropinum droxypropine	1-{1-[2-(2-hydroxyethoxy)ethyl]-4-phenyl-4-piperidyl}-1-propanone
dydrogesteronum dydrogesterone	9β,10α-pregna-4,6-diene-3,20 dione
epiestriolum epiestriol	estra-1,3,5(10)-triene-3,16β,17β-triol
epipropidinum epipropidine	1,1′-bis(2,3-epoxypropyl)-4,4′-bipiperidine
etaminilum etaminile	4-dimethylamino-2-ethyl-2-phenylvaleronitrile
etamivanum etamivan	*N*,*N*-diethylvanillamide
etebenecidum etebenecid	*p*-diethylsulfamoylbenzoic acid
ethomoxanum ethomoxane	DL-2-(butylaminomethyl)-8-ethoxy-1,4-benzodioxan
ethylis cartrizoas ethyl cartrizoate	(3,5-diacetamido-2,4,6-triiodobenzoyloxy)acetic acid ethylester
ethylis dibunas ethyl dibunate	ethyl 3,6-di-*tert*-butylnaphthalene-1-sulfonate
etryptaminum etryptamine	3-(2-aminobutyl)indole
etybenzatropinum etybenzatropine	3-diphenylmethoxy-8-ethylnortropane
febarbamatum febarbamate	1-(3-butoxy-2-hydroxypropyl)-5-ethyl-5-phenylbarbituric acid carbamate ester
fenadiazolum fenadiazole	*o*-1,3,4-oxadiazol-2-ylphenol
fenbutrazatum fenbutrazate	2-(3-methyl-2-phenylmorpholino)ethyl 2-phenylbutyrate
fencamfaminum fencamfamin	3-phenyl-*N*-ethyl-2-norbornanamine
fenoxazolinum fenoxazoline	2-(2-isopropylphenoxymethyl)-2-imidazoline
fenoxypropazinum fenoxypropazine	(1-methyl-2-phenoxyethyl)hydrazine
fenyramidolum fenyramidol	α-(2-pyridylaminomethyl)benzyl alcohol

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
fludroxycortidum fludroxycortide	6α-fluoro-16α,17-dihydroxycorticosterone, cyclic 16,17-acetal with acetone
flunisolidi acetas flunisolide acetate	6α-fluoro-11β,16α,17,21-tetrahydroxypregna-1,4-diene-3,20-dione, cyclic 16,17-acetal with acetone, 21-acetate
fluoresonum fluoresone	ethyl *p*-fluorophenyl sulfone
fluroxenum floroxene	2,2,2-trifluoroethyl vinyl ether
ftivazidum ftivazide	isonicotinic acid vanillylidenehydrazide
ganglefenum ganglefene	3-diethylamino-1,2-dimethylpropyl *p*-isobutoxybenzoate
glycopyrronii bromidum glycopyrronium bromide	1,1-dimethyl-3-hydroxypyrrolidinium bromide α-cyclopentylmandelate
glycyclamidum glycyclamide	1-cyclohexyl-3-*p*-tolylsulfonylurea
glysobuzolum glysobuzole	*N*-(5-isobutyl-1,3,4-thiadiazol-2-yl)-*p*-methoxybenzenesulfonamide
haletazolum haletazole	5-chloro-2-[p-(2-diethylaminoethoxy)phenyl]benzothiazole
heptolamidum heptolamide	1-cycloheptyl-3-p-tolylsulfonylurea
hexafluronii bromidum hexafluronium bromide	hexamethylenebis-[fluoren-9-yldimethylammonium]bromide
hexapradolum hexapradol	α-(1-aminohexyl)benzhydrol
hydromadinoni acetas hydromadinone acetate	6α-chloro-17-hydroxyprogesterone acetate
indopinum indopine	3-[2-(1-phenethyl-4-piperidyl)ethyl]indole
inositoli nicotinas inositol nicotinate	inositol hexanicotinate
interferonum interferon	a protein formed by the interaction of animal cells with viruses capable of conferring on animal cells resistance to virus infection
iofendylatum iofendylate	ethyl 10-(*p*-iodophenyl)undecanoate
isopropicillinum isopropicillin	3,3-dimethyl-6-(2-methyl-2-phenoxypropionamido)-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid OR (1-methyl-1-phenoxyethyl)penicillin
laurolinii acetas laurolinium acetate	4-amino-1-dodecylquinaldinium acetate
levamfetaminum levamfetamine	(−)-α-methylphenethylamine

Proposed International Non-Proprietary Name (Latin, English)	*Chemica Name or Description*
levopropicillinum levopropicillin	(—)-3,3-dimethyl-7-oxo-6-(2-phenoxybutyramido)-4-thia-1-azabicyclo-[3.2.0]heptane-2-carboxylic acid OR (—)-1-phenoxypropylpenicillin
mebutamatum mebutamate	2-*sec*-butyl-2-methyl-1,3-propanediol dicarbamate
mecloqualonum mecloqualone	3-(*o*-chlorophenyl)-2-methyl-4(3*H*)-quinazolinone
mefeclorazinum mefeclorazine	1-*o*-chlorophenyl-4-(3,4-dimethoxyphenethyl) piperazine
melarsonylum kalicum melarsonyl potassium	potassium 2-{*p*-[(4,6-diamino-*s*-triazin-2-yl)amino]phenyl}-1,3,2-dithiarsolane-4,5-dicarboxylate
meractinomycinum meractinomycin	actinomycin D
mestranolum mestranol	17-ethynyl-3-methoxy-1,3,5(10)-estratrien-17β-ol
metacyclinum metacycline	4-dimethylamino-1,4,4a,5,5a,6,11,12a-octahydro-3,5,10,12,12a-pentahydroxy-6-methylene-1, 11-dioxo-2-naphthacenecarboxamide
metaglycodolum metaglycodol	2-(*m*-chlorophenyl)-3-methyl-2,3-butanediol
metamfazonum metamfazone	4-amino-6-methyl-2-phenyl-3(2*H*)-pyridazinone
metandienonum metandienone	17β-hydroxy-17-methylandrosta-1,4-dien-3-one
metenolonum metenolone	17β-hydroxy-1-methyl-5α-androst-1-en-3-one
metetoinum metetoin	5-ethyl-1-methyl-5-phenylhydantoin
methyldopum methyldopa	(—)-3-(3,4-dihydroxyphenyl)-2-methylalanine
meticillinum meticillin	6-(2,6-dimethoxybenzamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo-[3.2.0]heptane-2-carboxylic acid OR (2.6-dimethoxyphenyl)penicillin
metofolinum metofoline	1-(*p*-chlorophenethyl)-2-methyl-6,7-dimethoxy-1.2,3,4-tetrahydroisoquinoline
morazonum morazone	4-[(3-methyl-2-phenylmorpholino)methyl]antipyrine
moroxydinum moroxydine	4-morpholinecarboximidoylguanidine
nanofinum nanofin	2,6-lupetidine

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
natrii dibunas sodium dibunate	sodium 2,6-di-*tert*-butyl-1-naphthalenesulfonate
natrii feredetas sodium feredetate	iron chelate of the monosodium salt of (ethylenedinitrilo)tetraacetic acid
natrii tyropanoas sodium tyropanoate	sodium 3-butyramido-α-ethyl-2,4,6-triiodohydrocinnamate
nicocodinum nicocodine	6-nicotinoylcodeine
noracymethadolum noracymethadol	(±)-6-methylamino-4,4-diphenyl-3-heptanol acetate
nortriptylinum nortriptyline	10,11-dihydro-*N*-methyl-5*H*-dibenzo[a,d]cycloheptane-Δ 5, γ-propylamine
noxytiolinum noxytiolin	1-hydroxymethyl-3-methyl-2-thiourea
opiniazidum opiniazide	5,6-dimethoxyphthalaldehydic acid isonicotinoyl hydrazone
oxandrolonum oxandrolone	dodecahydro-3-hydroxy-6-(hydroxymethyl)-3,3a,6-trimethyl-1*H*-benz-[e]indene-7-acetic acid, δ-lactone
oxymesteronum oxymesterone	4,17β-dihydroxy-17-methylandrost-4-en-3-one
oxypertinum oxypertine	5,6-dimethoxy-2-methyl-3-[2-(4-phenyl-1-piperazinyl)ethyl]indole
paramethasonum paramethasone	6α-fluoro-11β,17,21-trihydroxy-16α-methylpregna-1,4-diene-3,20-dione 21-acetate
pemolinum pemoline	2-imino-5-phenyl-4-oxazolidinone
penicillaminum penicillamine	D-3-mercaptovaline
pentamoxanum pentamoxane	2-isopentylaminomethyl-1,4-benzodioxane
pipacyclinum pipacycline	4-dimethylamino-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-penta-hydroxy-*N*-[[4-(2-hydroxyethyl)-1-piperazinyl]methyl]-6-methyl-1,11-dioxo-2-naphthacenecarboxamide
pipazetatum pipazetate	2-(2-piperidinoethoxy)ethyl 10*H*-pyrido[3,2-b][1,4]benzothiazine-10-carboxylate
polynoxylinum polynoxylin	poly{methi[bis(hydroxymethyl)]ureylene}amer
polythiazidum polythiazide	6-chloro-3,4-dihydro-2-methyl-3-(2,2,2-trifluoroethyl-thiomethyl)-2*H*-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide
prenylaminum prenylamine	*N*-(3,3-diphenylpropyl)-α-methylphenethylamine
pridinolum pridinol	α,α-diphenyl-1-piperidinepropanol
pristinamycinum pristinamycine	an antibiotic substance obtained from cultures of *Streptomyces pristinaspiralis*, or the same substance produced by any other means

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
prodilidinum prodilidine	1,2-dimethyl-3-phenyl-3-pyrrolidyl propionate
propatylnitratum propatylnitrate	2-ethyl-2-(hydroxymethyl)-1,3-propanediol trinitrate
propinetidinum propinetidine	1-phenethyl-4-(2-propynyl)-4-piperidinol propionate
propyromazinum propyromazine	1-methyl-1-(1-phenothiazin-10-ylcarbonylethyl)pyrrolidinium
psilocybinum psilocybine	3-(2-dimethylaminoethyl)indol-4-yl dihydrogen phosphate
pyritinolum pyritinol	3,3′-(dithiodimethylene)bis[5-hydroxy-6-methyl-4-pyridinemethanol]
rofluranum roflurane	2-bromo-1,1,2-trifluoroethyl methyl ether
rufocromomycinum rufocromomycine	an antibiotic substance obtained from cultures of *Streptomyces rufochromogenus*, or the same substance produced by any other means
secbutabarbitalum secbutabarbital	5-*sec*-butyl-5-ethylbarbituric acid
solypertinum solypertine	7-[2-[4-(o-methoxyphenyl)-1-piperazinyl]ethyl]-5*H*-1,3-dioxolo[4,5-*f*]indole
spirazinum spirazine	2,4-diamino-5(*p*-chlorophenyl)-9-methyl-1,3,5-triazaspiro[5,5]undeca-1,3-diene
sulfacarbamidum sulfacarbamide	sulfanilylurea
sulfalenum sulfalene	N^1-(3-methoxy-2-pyrazinyl)sulfanilamide
sulfametomidinum sulfametomidine	N^1-(6-methoxy-2-methyl-4-pyrimidinyl)sulfanilamide
sulfamoxolum sulfamoxole	N^1-(4,5-dimethyl-2-oxazolyl)sulfanilamide
sulfasymazinum sulfasymazine	N^1-(4,6-diethyl-*s*-triazin-2-yl)sulfanilamide
symetinum symetine	4,4′-(ethylenedioxy(bis[*N*-hexyl-*N*-methylbenzylamine]
teclothiazidum teclothiazide	6-chloro-3,4-dihydro-3-(trichloromethyl)-2*H*-1,2,4-benzothiadiazine-7-sulfonamide-1,1-dioxide
tefluranum teflurane	2-bromo-1,1,1,2-tetrafluoroethane
thenii closylas thenium closylate	dimethyl(2-phenoxyethyl)2-thenylammonium closylate
thiohexamidum thiohexamide	1-cyclohexyl-3-[p-(methylthio)phenylsulfonyl]urea
tifencillinum tifencillin	3,3-dimethyl-7-oxo-6-[2-(phenylthio)acetamido]-4-thia-1-azabicyclo-[3.2.0]heptane-2-carboxylic acid OR (phenylthiomethyl)penicillin

Proposed International Non-Proprietary Name (Latin, English)	*Chemical Name or Description*
tigloidinum tigloidine	tiglyl*pseudo*tropine
tolazamidum tolazamide	1-(hexahydro-1*H*-azepin-1-yl)-3-(*p*-tolylsulfonyl)urea
tolboxanum tolboxane	5-methyl-5-propyl-2-*p*-tolyl-1,3,2,dioxaborinane
tolpentamidum tolpentamide	1-cyclopentyl-3-*p*-tolylsulfonylurea
tozalinonum tozalinone	2-dimethylamino-5-phenyl-2-oxazolin-4-one
triamterinum triamterine	2,4,7-triamino-6-phenylpteridine
trimedoximum trimedoxime	1,1′-trimethylenebis[4-formylpyridinium bromide]dioxime
vinblastinum vinblastine	also called vincaleukoblastine, is one of many alkaloids isolated from the plant *Vinca rosea*
vinylbitalum vinylbital	5-(1-methylbutyl)-5-vinylbarbituric acid
xanthiolum xanthiol	4-[3-(2-chlorothioxanthen-9-yl)propyl]-1-piperazinepropanol
xantocillinum xantocillin	an antibiotic substance obtained from cultures of *Penicillium notatum* or the same substance produced by any other means
xenysalatum xenysalate	2-diethylaminoethyl 3-phenylsalicylate
zylofuraminum zylofuramine	D-*threo*-α-benzyl-N-ethyltetrahydrofurfurylamine

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.

* Text adopted by the Executive Board in resolution EB15 R7 (*Off. Rec. Wld Hlth Org.*, 1955, 60, 3).

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.

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.

* 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).

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.

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 u ing 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- or -stan- or -ster-	-andr- or -stan- or -ster-	steroids, androgenic
-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, glucocorticoids 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	-toïne	antiepileptics which are hydantoin-derivatives
-verinum	-verine	-vérine	spasmolytics with a papaverine-like action
-olum	-ol	-ol	alcohols and phenols (-OH group)
-alum	-al	-al	aldehydes
-inum	-ine	-ine	alkaloids and organic bases
-onum	-one	-one	ketones and other substances containing the CO group
-onium	-onium	-onium	quaternary amines
-anum	-ane	-ane	saturated hydrocarbons
-enum	-ene	-ène	unsaturated hydrocarbons

Reprinted from
WHO Chronicle, Vol. 17, No. 2, February 1963, pp. 77-79

CORRIGENDUM

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International Non-Proprietary Names for Pharmaceutical Preparations

p. 385

delete	
amfomycinum amfomycin	an antibiotic produced by *Streptomyces canus*
insert	
amfomycinum amfomycin	an antibiotic produced by *Streptomyces canus*, or the same substance produced by any other means
delete	
atropinum oxydum atropine oxide	atropine *N*-oxide
insert	
atropini oxydum atropine oxide	atropine *N*-oxide

p. 386

delete	
azetepum azetepa	*P,P*-bis(1-azidirinyl)-N-ethyl-N-(1,3,4-thiadiazol-2-yl)-phosphinic amide
insert	
azatepum azatepa	*P,P*-bis(1-aziridinyl)-N-ethyl-N-(1,3,4-thiadiazol-2-yl)-phosphinic amide
delete	
benzindopyrinum benzindopyrine	1-benzyl-3-[2-(4-pyridyl)ethyl]indole hydrochloride
insert	
benzindopyrinum benzindopyrine	1-benzyl-3-[2-(4-pyridinyl)ethyl]indole hydrochloride

delete
benzpiperylonum
benzpiperylone — 4-benzyl-1-(1-methyl-4-piperidyl)-3-phenyl-3-pyrazolin-5-one

insert
benzpiperylonum
benzpiperylone — 4-benzyl-1-(1-methyl-4-piperidinyl)-3-phenyl-3-pyrazolin-5-one

delete
cetoximum
cetoxime — 2-*N*-benzylanilinoacetaxidoxime

insert
cetoximum
cetoxime — 2-*N*-benzylanilinoacetamidoxime

p. 387

delete
clopenthixolum
clopenthixol — 4-[3-(2-chlorothioxanthen-9-ylidene)propyl]-1-piperazineethanol

insert
clopenthixolum
clopenthixol — 4-[3-(2-chlorothiaxanthen-9-ylidene)propyl]-1-piperazineethanol

delete
cyclobutyrolum
cyclobutyrol — sodium α-ethyl-1-hydroxycyclohexaneacetate

insert
cyclobutyrolum
cyclobutyrol — α-ethyl-1-hydroxycyclohexaneacetic acid

delete
cyclopyrronii bromidum
cyclopyrronium bromide — 1-ethyl-3-hydroxy-1-methylpyrrolidinium bromide α-cyclopentylmandelate

insert
cyclopyrronii bromidum
cyclopyrronium bromide — 1-ethyl-3-hydroxy-1-methylpyrrolidinium bromide α-cyclopentylphenylacetate

delete
diazapamum
diazepam — 7-chloro-1,3-dihydro-1-methyl-5-phenyl-2*H*-1,4, benzodiazepin-2-one

insert
diazepamum
diazepam — 7-chloro-1,3-dihydro-1-methyl-5-phenyl-2*H*-1,4-benzodiazepin-2-one

p. 388

delete
ethylis cartrizoas
ethyl cartrizoate — hydroxymethyl 3,5-diacetamido-2,4,6-triiodobenzoate ethyl carbonate

insert
ethylis cartrizoas
ethyl cartrizoate — (3,5-diacetamido-2,4,6-triiodobenzoyloxy)acetic acid ethylester

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delete

glycyclamidum
glycyclamide — 1-cyclohexyl-3-*p*-tolysulfonylurea

insert

glycyclamidum
glycyclamide — 1-cyclohexyl-3-*p*-tolylsulfonylurea

p. 390

delete

melarsonylum kalicum
melarsonyl potassium — potassium 3-{*p*-[(4,6-diamino-*s*-triazin-2-yl)amino]phenyl}-1,3,2-dithiarsolane-4,5-dicarboxylate

insert

melarsonylum kalicum
melarsonyl potassium — potassium 2-{*p*-[(4,6-diamino-*s*-triazin-2-yl)amino]phenyl}-1,3,2-dithiarsolane-4,5-dicarboxylate

p. 391

delete

paramethasoni acetas
paramethazone acetate — 6α-fluoro-11β,17,21-trihydroxy-16α-methylpregna-1,4-diene-3,20-dione 21-acetate

insert

paramethasonum
paramethasone — 6α-fluoro-11β,17,21-trihydroxy-16α-methylpregna-1,4-diene-3,20-dione 21-acetate

delete

pibumecainum
pibumecaine — 1-methyl-4-piperidyl *p*-butylaminobenzoate

p. 393

delete

tigloidinum
tigloidine — tiglyl*pseudo*tropine

delete

triamterinum
triamterine — 2,4,7-triamino-6-phenylpteridine

insert

triamterenum
triamterene — 2,4,7-triamino-6-phenylpteridine