

ISMP's List of Products with Drug Name *Suffixes*

Currently, drug and biological products within a product line may utilize the existing trademark with the addition of a suffix to help identify a modified-dosage formulation, differentiate the dosing schedule or the product strength, or a variety of other reasons rather than propose an entirely different trademark. A suffix may be a letter, number, or combination of letters and/or numbers added to the end of a trademark.

As an unintended consequence, the use of drug name suffixes may contribute to confusion and medication errors. Errors involving products with suffixes may lead to an incorrect dosing interval or the wrong medication being prescribed, dispensed or administered. Numerous medication errors which may be associated with the use of a drug name suffix have been reported to the Institute for Safe Medications Practices Medication Errors Reporting Program (ISMP MERP) and the US Food and Drug Administration MedWatch Program.

Through an unrestricted grant from the Pharmaceutical Research and Manufacturers of America (PhRMA), ISMP surveyed 23 companies, which were members of PhRMA, the Biotechnology Industry Organization (BIO), and/or the Generic Pharmaceutical Association (GPhA), that market U.S. prescription drug and biological product names that contain a suffix. This document provides a list of drug and biological products, marketed by those 23 companies, whose names contain a suffix, along with meanings of the suffix. Please note: this list does *not* include every currently marketed drug or biological product whose name contains a suffix.

ISMP would like to thank PhRMA, BIO, and GPhA, along with their member companies that participated in this project, for their dedication to the development of this list. ISMP will maintain this list and work to expand it so that information about other U.S. drug and biologic products with a drug name suffix will be available to practitioners.

Proprietary Name	Generic Name	Available Strengths	Labeled Dosing Frequency	Labeled Meaning of Suffix ^a	Product Characteristic ^b	Manufacturer
ACTOplus met	pioglitazone hydrochloride and metformin hydrochloride	15 mg/500 mg 15 mg/850 mg	Once or twice daily	n/a	Other (n/a)	Takeda Pharmaceuticals
Adalat CC	nifedipine	30 mg 60 mg 90 mg	Once daily	Coat core	Modified-dosage formulation	Bayer Healthcare
Advair Diskus 100/50	fluticasone propionate and salmeterol inhalation powder	100 mcg/50 mcg	Twice daily	Delivery device 100 mcg/50 mcg	Device Strength of active ingredients	GlaxoSmithKline
Advair Diskus 250/50	fluticasone propionate and salmeterol inhalation powder	250 mcg/50 mcg	Twice daily	Delivery device 250 mcg/ 50 mcg	Device Strength of active ingredients	GlaxoSmithKline
Advair Diskus 500/50	fluticasone propionate and salmeterol inhalation powder	500 mcg/50 mcg	Twice daily	Delivery device 500 mcg/ 50 mcg	Device Strength of active ingredients	GlaxoSmithKline
Advair HFA 45/21	fluticasone propionate and salmeterol inhalation aerosol	45 mcg/21 mcg	Twice daily	hydrofluoroalkane (propellant)	Other (Propellant used for inhalation) Strength of active ingredients	GlaxoSmithKline
Advair HFA 115/21	fluticasone propionate and salmeterol inhalation aerosol	115 mcg/21 mcg	Twice daily	hydrofluoroalkane (propellant)	Other (Propellant used for inhalation) Strength of active ingredients	GlaxoSmithKline
Advair HFA 230/21	fluticasone propionate and salmeterol inhalation aerosol	230 mcg/21 mcg	Twice daily	hydrofluoroalkane (propellant)	Other (Propellant used for inhalation) Strength of active ingredients	GlaxoSmithKline
Advil PM	solubilized ibuprofen and diphenhydramine	200 mg ibuprofen and 25 mg diphenhydramine	2 tablets every 24 hours	Night time	Dosing schedule	Wyeth*
Alka-Seltzer PM	aspirin and diphenhydramine citrate	325 mg aspirin and 38 mg diphenhydramine citrate	At bedtime as needed	Nighttime	Dosing schedule	Bayer Healthcare
Anaprox DS	naproxen sodium	550 mg	Twice daily	Double strength (550 mg)	Indication for use	Roche
Ascensia ELITE XL	blood glucose meter	not applicable	As needed	Added features like, 14-day averaging and increased memory up to 120 tests compared to standard product	Other (n/a)	Bayer Healthcare
Atacand HCT	candesartan cilexetil and hydrochlorothiazide	16 mg/12.5 mg 32 mg/12.5 mg 32 mg/25 mg	Please refer to full prescribing information	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Astrazeneca LP

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Augmentin ES-600	amoxicillin and clavulanate potassium	600 mg/5 mL 600 mg/75 mL 600 mg/200 mL	Twice daily	Extra strength dose of 600 mg	Strength of active ingredients	GlaxoSmithKline
Augmentin XR	amoxicillin and clavulanate potassium extended release	1000 mg	Every 12 hours	Extended release	Modified-dosage formulation	GlaxoSmithKline
Axid AR	nizatidine	75 mg	Twice daily	Acid reducer	Indication for use	Wyeth*
Azulfidine En-tabs	sulfasalazine	500mg	Twice per day, administered dosage strength amount varies by indication, patient, & therapy course	Delayed release tablets	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Beconase AQ	beclomethasone dipropionate, monohydrate	42 mcg per actuation	Twice daily	Aqueous	Other (Formulation)	GlaxoSmithKline
Benicar HCT	olmesartan medoxomil and hydrochlorothiazide	20 mg/12.5 mg 40 mg/12.5 mg 40 mg/25 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Daiichi Sankyo, Inc.
Betapace AF	sotalol	80 mg 120 mg 160 mg	Varies	Atrial fibrillation/atrial flutter	Indication for use	Bayer Healthcare
Biaxin XL	clarithromycin extended release	500 mg	Once daily	Extended release	Modified-dosage formulation	Abbott Laboratories
Calan SR	verapamil hydrochloride sustained release	120 mg 180 mg 240 mg	Once daily, twice daily or every 12 hours	Sustained release	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Cardura XL	doxazosin mesylate	4 mg,8 mg	Once daily	Extended release	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Catapres-TTS	clonidine	0.1mg/24 hr 0.2 mg/24 hr 0.3 mg/24 hr	Once weekly	Transdermal therapeutic system	Delivery mechanism	Boehringer Ingelheim Pharmaceuticals, Inc.
Caverject Impulse	alprostadil	10 mcg 20 mcg	Single dose syringe with dual chamber cartridge	Dual chamber syringe system	Device	Pfizer US Pharmaceutical Group
Ceclor CD	cefaclor	375 mg 500 mg	Every 12 hours	Controlled delivery-extended release	Delivery mechanism	Eli Lilly and Company
Chlor-Trimeton Allergy D 12 Hour	pseudoephedrine and chlorpheniramine	120 mg/8 mg	Every 12 hours	Antihistamine/decongestant Every 12 hours	Indication for use Dosing schedule	Schering-Plough Corp.**
Cipro IV	ciprofloxacin	200 mg/20 mL (10 mg/mL) 400 mg/40 mL (10 mg/mL)	Varies	Intravenous	Route of administration	Bayer Healthcare
Cipro XR	ciprofloxacin	500 mg 1000 mg	Once daily	Extended Release	Modified-dosage formulation	Bayer Healthcare
Clarinet-D 12 hour	desloratadine and pseudoephedrine	2.5 mg/120 mg	Twice daily	Decongestant	Indication for use Dosing schedule	Schering-Plough Corp.**
Clarinet-D 24 hour	desloratadine and pseudoephedrine	5 mg/240 mg	Once daily	Decongestant	Indication for use Dosing schedule	Schering-Plough Corp.**
Claritin-D 12 hour	loratadine and pseudoephedrine sulfate	5 mg/120 mg	Every 12 hours	Antihistamine/decongestant Every 12 hours	Indication for use Dosing schedule	Schering-Plough Corp.**
Claritin-D 24 hour	loratadine and pseudoephedrine sulfate	10 mg/240 mg	Once daily	Antihistamine/decongestant Every 24 hours	Indication for use Dosing schedule	Schering-Plough Corp.**
Cleocin HCL	clindamycin hydrochloride	75 mg 150 mg 300 mg	Every six hours	Hydrochloride	Other (Hydrochloride salt form)	Pfizer US Pharmaceutical Group
Cleocin Pediatric	clindamycin palmitate hydrochloride	75 mg/5 mL solution	8-25 mg/kg/day divided into 3 or 4 equal doses	Pediatric	Patient population	Pfizer US Pharmaceutical Group
Cleocin Phosphate	clindamycin phosphate	600 mg/50 mL 900 mg/100 mL	Dosage strength and frequency varies depending on patient age and indication	Phosphate	Other (Phosphate salt form)	Pfizer US Pharmaceutical Group

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Cleocin T	clindamycin phosphate	10 mg/mL for solution and lotion 10 mg/g for gel	Twice daily	Topical	Route of administration	Pfizer US Pharmaceutical Group
Cleocin Vaginal Ovules	clindamycin phosphate	100 mg/2.5 g suppository	One per day at bedtime for 3 days	Vaginal suppositories	Delivery mechanism	Pfizer US Pharmaceutical Group
Climara Pro	estradiol and levonorgestrel	0.045 mg/0.015 mg	Once weekly patch	Progestin	Other (Contains progestin)	Berlex Laboratories, Inc.
Coreg CR	carvedilol phosphate	10 mg 20 mg 40 mg 80 mg	Once daily	Controlled release	Modified-dosage formulation	GlaxoSmithKline
Coricidin HBP Cough & Cold	dextromethorphan and chlorpheniramine	30 mg/4 mg	Every 6 hours	For people with high blood pressure	Other (Decongestant free) Indication for use	Schering-Plough Corp.**
Covera HS	verapamil hydrochloride (extended release, controlled onset)	180 mg 240 mg	Once daily (at bedtime)	Extended release, controlled onset	Dosing schedule	Pfizer US Pharmaceutical Group
Cytovene-IV	ganciclovir sodium	500 mg/10 mL	Varies	Intravenous	Delivery mechanism	Roche
Daypro Alta	oxaprozin potassium	600 mg	1200 mg once per day	none	Delivery mechanism	Pfizer US Pharmaceutical Group
Depakote ER	divalproex sodium	250 mg 500 mg	Once daily	Extended release	Modified-dosage formulation	Abbott Laboratories
Depo-SubQ provera 104	medroxyprogesterone acetate	104 mg/0.65 mL	Subcutaneously every 3 months	104 mg/0.65 mL	Strength of an active ingredient	Pfizer US Pharmaceutical Group
Detrol LA	tolterodine tartrate	2 mg 4 mg	Once daily	Long-Acting	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Dilantin Infatabs	phenytoin	50 mg	100 mg (2 tablets) 3 times daily	Tablets	Delivery mechanism	Pfizer US Pharmaceutical Group
Dilantin Kapseals	phenytoin sodium	100 mg	One capsule 3 to 4 times per day	Capsule	Delivery mechanism	Pfizer US Pharmaceutical Group
Dilantin-125	phenytoin	125 mg/5 mL	Varies	Strength	Strength of an active ingredient	Pfizer US Pharmaceutical Group
Dilaudid-HP	hydromorphone hydrochloride	10 mg/mL 250 mg/vial lyophilized	Varies	High potency	Strength of an active ingredient	Purdue Pharma L.P.
Dimetapp DM	pseudoephedrine and brompheniramine and dextromethorphan	15 mg/1 mg/5 mg	Every 4 hours	Dextromethorphan	Other (Inclusion of active ingredient)	Wyeth*
Diovan HCT	valsartan and hydrochlorothiazide	80 mg/12.5 mg 160 mg/12.5 mg 160 mg/25 mg 320 mg/12.5 mg 320 mg/25 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Novartis Pharmaceuticals Corp.
Diprolene AF	betamethasone	0.05%	Once or twice daily	Augmented formula	Other (Formulation)	Schering-Plough Corp.**
Diprolene gel 0.05%	betamethasone dipropionate	0.05%	Varies	0.05%	Strength of an active ingredient	Schering-Plough Corp.**
Ditropan XL	oxybutynin chloride extended release	5 mg 10 mg 15 mg	Once daily	Extended release	Modified-dosage formulation	Ortho-McNeil Pharmaceuticals
E.E.S. 400	erythromycin ethylsuccinate	400 mg Filmstab	Varies	Strength	Strength of an active ingredient	Abbott Laboratories
Effexor XR	venlafaxine hydrochloride extended release	37.5 mg 75 mg 100 mg 150 mg	Once daily	Extended release	Modified-dosage formulation	Wyeth*
Engerix-B	hepatitis B vaccine (recombinant)	10 mcg/mL (pediatric/adolescent) 20 mcg/mL (adult)	Vaccine series	Hepatitis B	Indication for use	GlaxoSmithKline
Entocort EC	budesonide	3 mg	Please refer to prescribing information	N/A	N/A	Astrazeneca LP
Epivir-HBV	lamivudine	100 mg tablet 5 mg/mL oral solution	Once daily	Hepatitis B virus	Indication for use	GlaxoSmithKline

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Extra Strength Tylenol PM	acetaminophen and diphenhydramine citrate	500 mg/25 mg	At bedtime as needed	Evening	Dosing schedule	Ortho-McNeil Pharmaceuticals
Femstat 3	butoconazole nitrate	2%	Once daily	3 day treatment	Therapy duration	Bayer Healthcare
Flagyl 375	metronidazole	375 mg	Amount, frequency and duration varies by population and indication	375 mg capsules	Strength of an active ingredient	Pfizer US Pharmaceutical Group
Flagyl ER	metronidazole	750 mg	Once daily	Extended release	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Flovent HFA	fluticasone propionate	44 mcg/inh 110 mcg/inh 220 mcg/inh	1-2 times daily	Hydrofluoroalkane (propellant)	Other (Propellant used for inhalation)	GlaxoSmithKline
Floxin otic	ofloxacin	0.3% solution	Once or twice daily depending on indication	Ear	Route of administration	Daiichi Sankyo, Inc.
Floxin Otic Singles	ofloxacin	0.3% solution	Once or twice daily depending on indication	Ear Single-dispensing container	Route of administration Packaging configuration	Daiichi Sankyo, Inc.
Focalin XR	dexmethylphenidate	5 mg 10 mg 15 mg 20 mg	Varies	Extended release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Follistim AQ	follitropin alfa	300 units 600 units 900 units	Varies	Aqueous	Other (Formulation)	Schering-Plough Corp.**
Fosamax Plus D	alendronate sodium and cholecalciferol	70 mg base/2,800 units 70 mg base/5,600 units	One weekly	Vitamin D	Other (Inclusion of active ingredient)	Merck & CO.
Genotropin Miniquick	somatropin	0.2 mg 0.4 mg 0.6 mg 0.8 mg 1 mg 1.2 mg 1.4 mg 1.6 mg 1.8 mg 2 mg	Weekly	Single-use syringe with 2-chamber cartridge	Device	Pfizer US Pharmaceutical Group
GlucaGen HypoKit	glucagon [rDNA origin] for injection	1 mg	As needed	None	Packaging configuration	Novo Nordisk, Inc.
Glucophage XR	metformin hydrochloride extended-release tablets	500 mg 750 mg	Once daily. Twice daily dosing may be considered if glycemic control is not achieved on Glucophage XR 2,000 mg once daily	Extended release	Modified-dosage formulation	Bristol-Myers Squibb
Glucotrol XL	glipizide	2.5 mg 5 mg 10 mg	Once daily	Extended release	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Glynase PresTab	glyburide	1.5 mg 3 mg 6 mg	Once daily	Scored tablet designed to split easily	Delivery mechanism	Pfizer US Pharmaceutical Group
Gonal-f RFF	follitropin alpha	82 units	As directed	Revised formulation female	Patient population	EMD Serono
Gonal-f RFF Pen	follitropin alpha	415 units 568 units 1,026 units	As directed	Revised formulation female Drug delivery device	Patient population Device	EMD Serono
Grifulvin V	Griseofulvin, microsize	500 mg 125 mg/5 mL	1-2 times daily	5 mls	Strength of an active ingredient	Ortho-McNeil Pharmaceuticals
Helixate FS	antihemophilic factor (recombinant)	FVIII activity in international units: 250, 500, 1000, 2000	As directed	Formulated with sucrose	Other (Formulation)	Bayer Healthcare
Humalog Mix 75/25	75% insulin lispro protamine suspension and 25% insulin lispro injection (rDNA origin)	75% insulin lispro protamine suspension, 25% insulin lispro injection	As directed	Strength of active ingredients	Strength of active ingredients	Eli Lilly and Company

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Humalog Kwikpen	insulin lispro injection, USP (rDNA origin)	3 mL (300 units) of U-100 insulin	1 to 60 units in one injection	Disposable insulin delivery device	Device	Eli Lilly and Company
Humalog Mix 50/50	50% insulin lispro protamine suspension and 50% insulin lispro injection (rDNA origin)	50% insulin lispro protamine suspension, 50% insulin lispro injection	As directed	Strength of active ingredients	Strength of active ingredients	Eli Lilly and Company
HumaPen Memoir	insulin delivery device	3 mL insulin cartridges (100 units/mL)	1 to 60 units of any Humalog insulin	Reusable insulin delivery device with dose memory	Device	Eli Lilly and Company
HumaPen Luxura HD	insulin delivery device	3 mL insulin cartridges (100 units/mL)	1 to 30 units of Humalog insulin, one-half unit at a time	Reusable insulin pen that doses in one-half unit increments from 1 unit to 30 units	Device	Eli Lilly and Company
Humulin 50/50	50% human insulin isophane suspension and 50% human insulin injection (rDNA origin)	50% human insulin isophane suspension, 50% human insulin injection	As directed	Strength of active ingredients	Strength of active ingredients	Eli Lilly and Company
Humulin 70/30	70% human insulin isophane suspension and 30% human insulin injection (rDNA origin)	70% human insulin isophane suspension, 30% human insulin injection	As directed	Strength of active ingredients	Strength of active ingredients	Eli Lilly and Company
Humulin N	human insulin (rDNA origin) isophane suspension	100 units/mL	Varies	Neutral protamine Hagedorn insulin (NPH)	Other (Formulation)	Eli Lilly and Company
Humulin R	regular insulin human injection, USP (rDNA origin)	100 units/mL	Varies	Regular insulin	Other (Formulation)	Eli Lilly and Company
HypoTears PF	polyvinyl alcohol	1%	As needed	Preservative free	Absence of a preservative	Novartis Pharmaceuticals Corp.
Idamycin-PFS	idarubicin hydrochloride	1 mg/mL	Varies	Preservative free solution	Absence of a preservative	Pfizer US Pharmaceutical Group
Immodium A-D	loperamide hydrochloride	2 mg cap 1 mg/mL	Varies	Anti-diarrheal	Indication for use	Ortho-McNeil Pharmaceuticals
Intron A	interferon alpha-2b	n/a	Varies per condition	alfa	Other	Schering-Plough Corp.**
Kenalog-10 Injection	triamcinolone acetonide injectable suspension, USP	10 mg/mL	dosage requirements are variable and must be individualized on the basis of the disease under treatment and response of the patient	10 mg/mL	Other (Concentration of active ingredient)	Bristol-Myers Squibb
Kenalog-40 Injection	triamcinolone acetonide injectable suspension, USP	40 mg/mL	dosage requirements are variable and must be individualized on the basis of the disease under treatment and response of the patient	40 mg/mL	Other (Concentration of active ingredient)	Bristol-Myers Squibb
Koate DVI	antihemophilic factor (human)	FVIII activity in international units: 250, 500, 1000	As directed	Double viral inactivation	Other (Product feature)	Bayer Healthcare
Kogenate FS	antihemophilic factor (recombinant)	FVIII activity in international units: 250, 500, 1000, 2000	As directed	Formulated with sucrose	Other (Formulation)	Bayer Healthcare
Lamictal CD	lamotrigine chewable dispersible	2 mg 5 mg 25 mg	Varies	Chewable dispersible	Delivery mechanism	GlaxoSmithKline
Lamisil AT	terbinafine	1%	Twice daily	None	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Levaquin Leva-pak	levofloxacin	750 mg	Once daily	Duration of therapy in package	Therapy duration Packaging configuration	Ortho-McNeil Pharmaceuticals
Levemir FlexPen	insulin detemir (rDNA) injection	100 units/mL	As directed	Disposable prefilled pen	Device	Novo Nordisk, Inc.
Lopressor HCT	metoprolol and hydrochlorothiazide	50 mg/25 mg 100 mg/25 mg 100 mg/50 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Novartis Pharmaceuticals Corp.

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Lotensin HCT	benazepril and hydrochlorothiazide	5 mg/6.25 mg 10 mg/12.5 mg 20 mg/12.5 mg 20 mg/25 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Novartis Pharmaceuticals Corp.
Lotrimin AF	clotrimazole (cream) miconazole nitrate (spray/powder)	1% clotrimazole (cream) 2% miconazole nitrate (spray/powder)	As needed	Athletes foot	Indication for use	Schering-Plough Corp.**
Marax-DF	ephedrine sulfate and theophylline and hydroxyzine hydrochloride	6.25 mg ephedrine sulfate, 32.5 mg theophylline, and 2.5 mg hydroxyzine hydrochloride per 5 mL dose	Ages 2-5: 2.5 - 5 mL Ages 5 and older: 5 mL	None	Delivery mechanism	Pfizer US Pharmaceutical Group
Maxalt-MLT	rizatriptan benzoate	EQ 5 mg base EQ 10 mg base	As needed	Orally disintegrating tablets	Delivery mechanism	Merck & CO.
Merrem I.V.	meropenem for injection	1 g MERREM I.V. vial will deliver 1 g of meropenem and 90.2 mg of sodium as sodium carbonate (3.92 mEq) 500 mg MERREM I.V. vial will deliver 500 mg meropenem and 45.1 mg of sodium as sodium carbonate (1.96 mEq)	Please refer to full prescribing information	For intravenous administration	Route of administration	Astrazeneca LP
Micardis HCT	telmisartan and hydrochlorothiazide	40 mg/12.5 mg 80 mg/12.5 mg 80 mg/25 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Boehringer Ingelheim Pharmaceuticals, Inc.
Miochol-E	acetylcholine chloride	20 mg	Use during eye surgery	Electrolyte diluant	Other (Formulation)	Novartis Pharmaceuticals Corp.
Monistat 1	tioconazole	0.065	Once daily	One day treatment	Therapy duration	Ortho-McNeil Pharmaceuticals
Monistat 3	miconazole	200 mg	Daily	3 day treatment	Therapy duration	Ortho-McNeil Pharmaceuticals
Monistat 7	miconazole	100 mg	Daily	7 day treatment	Therapy duration	Ortho-McNeil Pharmaceuticals
Monistat Derm	miconazole nitrate	2%	1-2 times daily	Topical	Route of administration	Ortho-McNeil Pharmaceuticals
Monopril-HCT 10/12.5	fosinopril sodium and hydrochlorothiazide	10 mg/12.5 mg	Once daily	HCT denotes hydrochlorothiazide 10/12.5 denotes milligrams of fosinopril and hydrochlorothiazide, respectively	Other (Inclusion of active ingredient) Strength of active ingredients	Bristol-Myers Squibb
Monopril-HCT 20/12.5	fosinopril sodium and hydrochlorothiazide	20 mg/12.5 mg	Once daily	HCT denotes hydrochlorothiazide 20/12.5 denotes milligrams of fosinopril and hydrochlorothiazide, respectively	Other (Inclusion of active ingredient) Strength of active ingredients	Bristol-Myers Squibb
Motrin IB	ibuprofen	200 mg	Every 4-6 hours prn	Ibuprofen	Other (Inclusion of active ingredient)	Ortho-McNeil Pharmaceuticals
Mycelex-7	clotrimazole cream	1%	Once daily	7 day treatment	Therapy duration	Bayer Healthcare
EC-Naprosyn	naproxen	375 mg 500 mg	Twice daily	Enteric coated/delayed release	Modified-dosage formulation	Roche
Navane IM	thiothixene hydrochloride	5 mg/mL	Varies	Intramuscular	Route of administration	Pfizer US Pharmaceutical Group
Nexium I.V.	esomeprazole sodium	20 mg and 40 mg of esomeprazole per single-use vial	Please refer to full prescribing information	For intravenous administration after reconstitution	Route of administration	Astrazeneca LP
Nicoderm CQ	nicotine patch	7 mcg/24 hr 14 mcg/24 hr 21 mcg/24 hr	Once daily	Unknown	Unknown	GlaxoSmithKline

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Nicotrol NS	nicotine nasal spray	0.5 mg per spray	1 to 2 sprays each nostril every hour (Initially)	Nasal spray	Delivery mechanism	Pfizer US Pharmaceutical Group
Nitro-bid	nitroglycerin	2% ointment	2-4 times daily ointment	Twice daily dosing	Dosing schedule	Fougera, a Division of Nycomed US Inc.
Nizoral A-D	ketoconazole shampoo	1%	Once daily	Anti-dandruff	Indication for use	Ortho-McNeil Pharmaceuticals
Norditropin Cartridges	somatropin (rDNA) injection	5 mg/1.5 mL 15 mg/1.5 mL	As directed	Disposable prefilled cartridge	Packaging configuration	Novo Nordisk, Inc.
Norditropin NordiFlex	somatropin (rDNA) injection	5 mg/1.5 mL 10 mg/1.5 mL 15 mg/1.5 mL 30 mg/1.5 mL	As directed	Disposable prefilled pen	Device	Novo Nordisk, Inc.
Novolin 70/30	human insulin isophane suspension and human insulin injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients	Strength of active ingredients	Novo Nordisk, Inc.
Novolin 70/30 InnoLet	human insulin isophane suspension and human insulin injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients Disposable prefilled pen	Strength of active ingredients Device	Novo Nordisk, Inc.
Novolin 70/30 PenFill	human insulin isophane suspension and human insulin injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients Disposable prefilled cartridge	Strength of active ingredients Packaging configuration	Novo Nordisk, Inc.
Novolin N	human insulin isophane suspension injection (rDNA)	100 units/mL	As directed	Neutral protamine Hagedorn insulin (NPH)	Other (Formulation)	Novo Nordisk, Inc.
Novolin N InnoLet	human insulin isophane suspension injection (rDNA)	100 units/mL	As directed	Neutral protamine Hagedorn insulin (NPH) Disposable prefilled pen	Other (Formulation) Device	Novo Nordisk, Inc.
Novolin N PenFill	human insulin isophane suspension injection (rDNA)	100 units/mL	As directed	Neutral protamine Hagedorn insulin (NPH) Disposable prefilled pen	Other (Formulation) Packaging configuration	Novo Nordisk, Inc.
Novolin R	human insulin injection (rDNA)	100 units/mL	As directed	Regular insulin	Other (Formulation)	Novo Nordisk, Inc.
Novolin R InnoLet	human insulin injection (rDNA)	100 units/mL	As directed	Regular insulin Disposable prefilled pen	Other (Formulation) Device	Novo Nordisk, Inc.
Novolin R PenFill	human insulin injection (rDNA)	100 units/mL	As directed	Regular insulin Disposable prefilled cartridge	Other (Formulation) Packaging configuration	Novo Nordisk, Inc.
NovoLog FlexPen	insulin aspart	100 units/mL	As directed	Prefilled pen	Device	Novo Nordisk, Inc.
NovoLog Mix 50/50	Insulin aspart protamine suspension and insulin aspart injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients	Strength of active ingredients	Novo Nordisk, Inc.
Novolog Mix 70/30	insulin aspart protamine suspension and insulin aspart injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients	Strength of active ingredients	Novo Nordisk, Inc.
NovoLog Mix 70/30 FlexPen	Insulin aspart protamine suspension and insulin aspart injection (rDNA)	100 units/mL	As directed	Ratio of active ingredients Disposable prefilled pen	Strength of active ingredients Device	Novo Nordisk, Inc.
NovoLog PenFill	insulin aspart injection (rDNA)	100 units/mL	As directed	Disposable prefilled cartridge	Packaging configuration	Novo Nordisk, Inc.
NovoSeven RT	coagulation factor VIIa (Recombinant)	1 mg 2 mg 5 mg	As directed	Room temperature stable	Other	Novo Nordisk, Inc.
Opana ER	oxymorphone hydrochloride	5 mg 7.5 mg 10 mg 15 mg 20 mg 30 mg 40 mg	Every 12 hours	Extended release	Modified-dosage formulation	Endo Pharmaceuticals, Inc.

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Proprietary Name	Generic Name	Available Strengths	Labeled Dosing Frequency	Labeled Meaning of Suffix ^a	Product Characteristic ^b	Manufacturer
Ortho Novum 7/7/7	northindrone and ethinyl estradiol	7 tablets contain northindrone 0.5 mg and ethinyl estradiol 0.35 mg; 7 tablets contain norethindrone 0.75 mg and ethinyl estradiol 0.035 mg; 7 tablets contain norethindrone 1 mg and ethinyl estradiol 0.035 mg	Once daily	7 tablets in each phase	Therapy duration	Ortho-McNeil Pharmaceuticals
Ortho tri-cyclen Lo	ethinyl estradiol and norgestimate	7 tablets contain ethinyl estradiol 0.025 mg and norgestimate 0.180 mg; 7 tablets contain ethinyl estradiol 0.025 mg and norgestimate 0.215 mg; 7 tablets contain ethinyl estradiol 0.025 mg and norgestimate 0.250 mg	Once daily	Low dose	Strength of an active ingredient	Ortho-McNeil Pharmaceuticals
Orthoclone OKT 3	muromomab - CD3	5 mg	Once daily	Ortho Kung T cell - 3 denotes antigenic marker	Other	Ortho-McNeil Pharmaceuticals
Pancrease MT	lipase and amylase and protease	4,000 units 10,000 units 16,000 units 25,000 units 32,000 units	Varies	Micro tablets	Delivery mechanism	Ortho-McNeil Pharmaceuticals
Parafon Forte DSC	chlorzoxazone	500 mg	3-4 times daily	Double strength caplets	Strength of an active ingredient	Ortho-McNeil Pharmaceuticals
Paxil CR	paroxetine hydrochloride	12.5 mg 25 mg 37.5 mg	Once daily	Controlled release	Modified-dosage formulation	GlaxoSmithKline
Permapen Isoject	penicillin G benzathine	1,200,000 units/2 mL syringe	varies by age and indication	Single dose pre-filled syringe	Device	Pfizer US Pharmaceutical Group
Primaxin I.M.	imipenem and cilastatin sodium	Multiple strengths	every 12 hours	Intramuscular	Route of administration	Merck & CO.
Primaxin I.V.	imipenem and cilastatin sodium	Multiple strengths	Varies	Intravenous	Route of administration	Merck & CO.
Procardia XL	nifedipine extended release	30 mg 60 mg 90 mg	Once daily	Extended release	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Prostin VR Pediatric	alprostadil	500 micrograms/1 mL ampoules	Varies by patient weight	VR - No meaning Pediatric	Patient population	Pfizer US Pharmaceutical Group
Protonix IV	pantoprazole sodium	40 mg	Once daily	Intravenous infusion	Route of administration	Wyeth*
Proventil HFA	albuterol sulfate	0.09% per actuation	Every 4 to 6 hours as needed	Hydrofluoroalkane (propellant)	Device	Schering-Plough Corp.**
Prozac Weekly	fluoxetine hydrochloride	90 mg	Once weekly	Weekly	Dosing schedule	Eli Lilly and Company
Razadyne ER	galantamine hydrobromide	8 mg 16 mg 24 mg	Once daily	Extended release	Modified-dosage formulation	Ortho-McNeil Pharmaceuticals
Retin-A	tretinoin	0.025% 0.05% 0.01% 0.1%	Once daily	Vitamin A	Other (Inclusion of active ingredient)	Ortho-McNeil Pharmaceuticals
R-Gene 10	10% arginine hydrochloride	10 g/100 mL	Adults: 30 g per 300 mL Children: 0.5 g per 5 mL per kilogram of body weight	10% arginine hydrochloride	Strength of an active ingredient	Pfizer US Pharmaceutical Group
Risperdal Consta	risperidone long acting injection	12.5 mg 25 mg 37.5 mg 50mg	Every 2 weeks	Constant	Modified-dosage formulation	Ortho-McNeil Pharmaceuticals

ISMP's List of Products with Drug Name Suffixes

Proprietary Name	Generic Name	Available Strengths	Labeled Dosing Frequency	Labeled Meaning of Suffix ^a	Product Characteristic ^b	Manufacturer
Risperdal M-Tab	risperidone orally disintegrating tablets	0.5 mg 1 mg 2 mg 3 mg 4 mg	Once daily	Melt tab	Delivery mechanism	Ortho-McNeil Pharmaceuticals
Ritalin LA	methylphenidate	10 mg 20 mg 30 mg 40 mg	Once daily	Extended release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Ritalin SR	methylphenidate	20 mg	Every 8 hours	Sustained Release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Robitussin CF	dextromethorphan and guaifenesin and phenylephrine	10 mg/100 mg/5 mg	As needed	Cold Formula	Other (Formulation)	Wyeth*
Robitussin DM	dextromethorphan and guaifenesin	10 mg/100 mg	As needed	Dextromethorphan	Other (Inclusion of active ingredient)	Wyeth*
Robitussin PE	pseudoephedrine and guaifenesin	30 mg/100 mg	Every 4 hours	Phenylephrine	Other (Inclusion of active ingredient)	Wyeth*
Sandostatin LAR Depot	octreotide acetate	10 mg 20 mg 30 mg	Once monthly IM injection	Long acting release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Semprex-D	acrivastine and pseudoephedrine hydrochloride	8 mg/60 mg	3-4 times daily	Pseudoephedrine	Other (Inclusion of active ingredient)	GlaxoSmithKline
Senokot-S	standardized senna and docusate sodium	8.6 mg/50 mg	Varies	Stool softener	Other	Purdue Pharma L.P.
Seroquel XR	quetiapine fumarate	50 mg 150 mg 200 mg 300 mg 400 mg	Please refer to full prescribing information	Extended release	Modified-dosage formulation	Astrazeneca LP
Serostim LQ	somatropin	6 mg/0.5 mL	Once daily	Liquid	Other (Formulation)	EMD Serono
Sinemet CR Sustained Release Tablets	carbidopa and levodopa	25-100 (contains 25 mg carbidopa and 100 mg levodopa) 50-200 (contains 50 mg carbidopa and 200 mg levodopa)	Dosing interval ranges from four to eight hours during the waking day (intervals less than four hours have been used but are not usually recommended)	Controlled release	Modified-dosage formulation	Bristol-Myers Squibb
Slow-K	potassium chloride	8 mEq	Individualized	Potassium	Other (Inclusion of active ingredient)	Novartis Pharmaceuticals Corp.
Spiriva Handihaler	tiotropium bromide	18 mcg	Once daily	Inhalation device	Device	Pfizer US Pharmaceutical Group
Stalevo 50	carbidopa and entacapone and levodopa	12.5 mg/200 mg/50 mg	Individualized dosing determined through titration	50 mg	Strength of an active ingredient	Novartis Pharmaceuticals Corp.
Sudafed 12 hour	pseudoephedrine hydrochloride	120 mg	Every 12 hours	Extended release	Modified-dosage formulation Dosing schedule	Ortho-McNeil Pharmaceuticals
Sudafed 24 hour	pseudoephedrine hydrochloride	240 mg	Once Daily	Once daily	Modified-dosage formulation Dosing schedule	Ortho-McNeil Pharmaceuticals
Symbicort 160/4.5	budesonide and formoterol fumarate dihydrate	160 mcg/4.5 mcg	Please refer to full prescribing information	Budesonide 160 mcg and formoterol fumarate dihydrate 4.5 mcg	Strength of an active ingredient	Astrazeneca LP
Symbicort 80/4.5	budesonide and formoterol fumarate dihydrate	80 mcg/4.5 mcg	Please refer to full prescribing information	Budesonide 80 mcg and formoterol fumarate dihydrate 4.5 mcg	Strength of an active ingredient	Astrazeneca LP
Tagamet HB 200	cimetadine	200 mg	Twice daily	Heartburn 200 mg	Indication for use Strength of an active ingredient	GlaxoSmithKline

* Wyeth is now part of Pfizer. ** Schering-Plough is now part of Merck & CO.

ISMP's List of Drug Name Suffixes

Proprietary Name	Generic Name	Available Strengths	Labeled Dosing Frequency	Labeled Meaning of Suffix ^a	Product Characteristic ^b	Manufacturer
Tegretol XR	carbamazepine extended release	100 mg 200 mg 400 mg	Twice daily	Extended release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Tenoretic 50	atenolol and chlorthalidone	50 mg/25 mg	Please refer to full prescribing information	Atenolol 50 mg and chlorthalidone 25 mg	Strength of an active ingredient	Astrazeneca LP
Tenoretic 100	atenolol and chlorthalidone	100 mg/25 mg	Please refer to full prescribing information	Atenolol 100 mg and chlorthalidone 25 mg	Strength of an active ingredient	Astrazeneca LP
Terazol 3	terconazole	0.8% cream 80 mg suppository	Once daily	3 day treatment	Therapy duration	Ortho-McNeil Pharmaceuticals
Terazol 7	terconazole	0.4% cream	Once daily	7 day treatment	Therapy duration	Ortho-McNeil Pharmaceuticals
Teveten HCT	eprosartan and hydrochlorothiazide	600 mg/12.5 mg 600 mg/25 mg	Once daily	Hydrochlorothiazide	Other (Inclusion of active ingredient)	Abbott Laboratories
Timentin (ADD)	ticarcillin disodium and clavulanate potassium	3 g/0.1 g Add-Vantage vial	Varies	Unknown	Packaging configuration	GlaxoSmithKline
Toprol-XL	metoprolol succinate	25 mg 50 mg 100 mg 200 mg	Please refer to full prescribing information	Extended release	Modified-dosage formulation	Astrazeneca LP
Transderm scop	scopolamine	1.5 mg	One transdermal disc every 3 days	Scopolamine	Other (Inclusion of active ingredient)	Novartis Pharmaceuticals Corp.
Trelstar Depot	triptorelin pamoate	3.75 mg	Once per month	Depot injection	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Trelstar LA	triptorelin pamoate	11.25 mg	Once every 84 days	Long acting	Modified-dosage formulation	Pfizer US Pharmaceutical Group
Triaminic AM	pseudoephedrine and dextromethorphan	15 mg/7.5 mg	Every 6 hours	Non-drowsy	Dosing schedule	Novartis Pharmaceuticals Corp.
Tums EX	calcium carbonate	750 mg	As needed	Extra strength	Strength of an active ingredient	GlaxoSmithKline
Ultram ER	tramadol	100 mg 200 mg 300 mg	Once daily	Extended release	Modified-dosage formulation	Ortho-McNeil Pharmaceuticals
Uro-Mag	magnesium	140 mg	Varies	Magnesium	Other (Inclusion of active ingredient)	Boehringer Ingelheim Pharmaceuticals, Inc.
Ventolin HFA	albuterol sulfate	108 mcg per actuation	Every 4 to 6 hours as needed	Hydrofluoroalkane (propellant)	Other (Propellant used for inhalation)	GlaxoSmithKline
Vicodin ES	hydrocodone bitartrate and acetaminophen	7.5 mg/750 mg	As needed	Extra strength	Strength of an active ingredient	Abbott Laboratories
Vicodin HP	hydrocodone bitartrate and acetaminophen	10 mg/660 mg	As needed	High potency	Strength of an active ingredient	Abbott Laboratories
Videx EC	didanosine	125 mg 200 mg 250 mg 400 mg	Once daily	Delayed-release capsules Enteric coated beadlets	Modified-dosage formulation	Bristol-Myers Squibb
Vivelle-dot	estradiol	0.1 mg 0.05 mg 0.025 mg 0.075 mg 0.0375 mg	Twice weekly	Smaller than original Vivelle	Other	Novartis Pharmaceuticals Corp.
Voltaren XR	diclofenac sodium extended release	100 mg	Once daily	Extended release	Modified-dosage formulation	Novartis Pharmaceuticals Corp.
Wellbutrin SR	bupropion hydrochloride extended release	50 mg 100 mg 150 mg 200 mg	Twice daily	Sustained release	Modified-dosage formulation	GlaxoSmithKline
Wellbutrin XL	bupropion hydrochloride extended release	150 mg 300 mg	Once daily	Extended release	Modified-dosage formulation	GlaxoSmithKline
Xanax XR	alprazolam	0.5 mg 1 mg 2 mg 3 mg	Once daily	Extended release	Modified-dosage formulation	Pfizer US Pharmaceutical Group

ISMP's List of Drug Name Suffixes

Proprietary Name	Generic Name	Available Strengths	Labeled Dosing Frequency	Labeled Meaning of Suffix ^a	Product Characteristic ^b	Manufacturer
Zithromax IV	azithromycin	500 mg per 10 mL vial	Once daily for 2 days	Intravenous infusion	Route of administration	Pfizer US Pharmaceutical Group
Zofran ODT	ondansetron	4 mg 8 mg	As needed	Orally disintegrating tablets	Delivery mechanism	GlaxoSmithKline
Zomig-ZMT	zolmitriptan	2.5 mg 5 mg	Please refer to full prescribing information	N/A	Other	Astrazeneca LP
Zyprexa Zydys	olanzapine orally disintegrating tablets	5 mg 10 mg 15 mg 20 mg	Once daily	Orally disintegrating tablets	Delivery mechanism	Eli Lilly and Company
Zyprexa IM	olanzapine for injection	10 mg vial	Once daily	Intramuscular	Route of administration	Eli Lilly and Company

^a **Labeled Meaning of Suffix:** For example, does “CD” mean “controlled delivery”, “chewable dispersible.”

^b **Product Characteristic:** The product characteristic associated with the suffix.

Modified-dosage formulation. Used to distinguish a modified-release dosage formulation from a currently marketed immediate-release product (e.g., “drug name SR” and “drug name”).

Delivery mechanism. Used to indicate the product's mechanism of delivery, such as orally disintegrating tablet or transdermal product (e.g., “drug name ODT” where “ODT” indicates an orally disintegrating tablet).

Dosing schedule. Used to describe the schedule, frequency, or interval at which a medication should be dosed or administered (e.g., “drug name BID” where “BID” indicates the medication should be administered twice daily).

Indication for use. Used to express the medication's indication for use (e.g., “drug name AF” where “AF” indicates use for atrial fibrillation).

Therapy duration. Used to indicate the total number of days for which the product should be used or contains (e.g., “drug name-3” where “3” is the number of days of therapy).

Number of active ingredients. Used to indicate the number of active ingredients in a single product (e.g., “drug name-12” where “12” is the number of active ingredients).

Total drug contents. Used to describe the combined metric weight of multiple active ingredients (e.g., “drug name 10” where “10” indicates the combined mg strength of the active ingredients/salts contained in the product).

Strength of an active ingredient. Used to indicate the metric weight of a single active ingredient (e.g., “drug name 25” where “25” is the mg strength of a single active ingredient).

Route of administration. Used to describe the product's route of administration, such as topical or intravenous (IV), for the medication (e.g., “drug name IV”).

Packaging configuration. Used to differentiate one product from another based upon special or unique packaging (e.g., “drug name pak” where “pak” indicates the medication is available in a dose card package).

Absence of a preservative. Used to differentiate preservative free products from those medications that have preservatives (e.g., “drug name PF” where “PF” means preservative free).

Patient population. Used to indicate the patient population, such as adults or pediatrics, for which the medication is indicated (e.g., “drug name Jr” where “Jr” indicates that the product is intended for children).

Device. Used to describe or indicate the use of a device, such as a prefilled pen or inhaler device, to deliver a medication (e.g., “drug name Pen” where “Pen” indicates the use of a pen injector or “drug name Inhaler” where “Inhaler” indicates use of an inhaler device).