

A list of reported Sound-Alike Look-Alike Drugs which have been confused or have potential for confusion

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It is recommended that you also refer to www.imsn.ie to ensure you are using the current version as the document may have been updated since this was accessed.



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About the IMSN

The Irish Medication Safety Network (IMSN) is a voluntary, independent group, comprising hospital pharmacy based specialists actively involved in medication safety and Medication Safety Facilitators/Coordinators which aims to promote patient safety and safe medication practices through collaboration and shared learning within the network and with the wider community.

Website: www.imsn.ie Email: enquiries@imsn.ie

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Irish Medication Safety Network

SALAD Bar

Notes for Use

- The following list of Sound-Alike Look-Alike Drugs (SALAD) has been developed as a general reference for use in the Irish setting. It is intended to be used in conjunction with the current IMSN Briefing Document on Sound Alike Look Alike Drugs (SALADs) in the Hospital Setting (available on www.imsn.ie).
- 2. The list of SALAD pairs has been derived from multiple sources, including personal communications from Irish hospitals, internal hospital alerts, published alerts, and lists of confused or potentially confusable drug names published by other agencies. Some sources appear to have cross-referenced others so the citing of a SALAD pair in multiple references is not necessarily indicative of how frequently that particular pair was confused. Nor was it possible to establish whether the confusion resulted in patient harm or how the confusion occurred.
- 3. Designation of drug names as sound-alike or look-alike is both highly subjective and very unpredictable. Moreover, SALADs are identified and reported, new products are launched, and new packaging is designed on an ongoing basis. Therefore,
 - i. Please note that this list represents the opinions of the various contributors. It does not necessarily express the views of either the author or the Irish Medication Safety Network.
 - ii. This list is neither definitive nor an indication that any particular action or decision should be taken.
 - iii. This list can not be assumed to be either comprehensive or current.
- 4. We have kept the list as simple as possible and have used only the name cited in the original source therefore a drug may be listed under both its generic name and also as a particular product. To avoid a very cluttered list, we have removed references to strength, route and other descriptors unless of immediate relevance to the confusion. Each SALAD pair appears only once on the list.
 - To search for a particular drug or product, we suggest using the "Find" function in the Edit tab or "Ctrl F".
- 5. Drugs were included if they were listed in any of: HPRA website³⁹, <u>www.medicines.ie</u>⁴⁰, BNF⁴¹ or MIMS Ireland⁴².

The list will be updated periodically. If you have any SALAD pairs from your institution which you think are relevant to the Irish setting, please e-mail enquiries@imsn.ie with "SALAD BAR" in the Subject line with details (and photographs for LOOK-ALIKE pairs) for consideration. SALAD concerns should also be reported to the manufacturers and appropriate agencies.

We recommend that:

- 1) organisations use their own experience, supplemented by this and/or other lists to compile their own SALAD list
- 2) local SALAD lists are short, relevant, and regularly reviewed

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List of confused drug names

Drug name 1	Drug name 2	Reference
Abelcet®	amphotericin B	8, 23
Acerycal® different strengths		34
Acerycal®	perindopril	11
acetic acid for irrigation	glacial acetic acid	8
Actimel®(dietary supplement)	Actonel®	30
Actiq [®]	Angeliq [®]	2
Actonel®	Actos®	4, 8, 23
ActRapid®	NovoRapid®	11
Additrace®	Addiphos®	2
adrenaline	noradrenaline	2
adrenaline 1: 1,000	adrenaline 1: 10,000	2
Adrenaline Minijet®	Atropine Minijet®	2
Advagraf®	Prograf [®]	6
afatinib	axitinib	10
Aggrastat®	argatroban	8, 23
Aldactide®	Aldactone®	2, 5
Aldomet®	Aldactone®	4
alfentanil	fentanyl	31
alfentanil 500mcg/ml	alfentanil 5mg/ml	12
Alkeran®	Leukeran®	3, 4, 8, 23, 31
Alkeran®	Myleran®	3, 4, 8, 23
allopurinol	atenolol	3
alprazolam	clonazepam	8
alprazolam	lorazepam	8, 9, 23
amantadine	amiodarone	8, 23
Amaryl®	Amoxil®	4
Amaryl®	Reminyl®	1, 8, 23
Ambisome®	amphotericin B	2, 8, 23
Amikin®	Kineret®	8, 23
amiloride	amlodipine	4, 5, 8, 9, 11, 23, 24
amiodarone	amlodipine	3, 4, 5, 10, 11, 23, 30
amisulpiride	amitriptyline	3
amisulpride	sulpiride	6
amitriptyline	aminophylline	3, 4, 5, 11
amlodipine	amitriptyline	3, 4
amlodipine	nimodipine	33
amoxicillin	amoxicillin with clavulanic acid	11
amphotericin B liposomal	amphotericin B	8
Anexate®	Anectine®	30

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Drug name 1	Drug name 2	Reference
Apidra®	Spiriva®	8
Aricept®	Azilect®	8, 23
aripiprazole	proton pump inhibitors	8
aripiprazole	rabeprazole	4, 8, 9, 23
Arixtra®	Arista®AH	8
Arthrimel®	Arythmol [®]	11
Atacand®	antacid	8
Atacand®	Atacand Plus®	11
atenolol	Actonel®	11
atenolol	amlodipine	33
Ativan®	Atrovent®	11
atorvastatin	atomoxetine	8
Avandia®	Prandin®	8
Avastin®	Avaxim®	1, 3, 4
azacitidine	azathioprine	8, 9, 10, 23
azathioprine	azithromycin	3, 4, 5, 10, 11, 31
azathioprine	erythromycin	3, 4
azithromycin	erythromycin	3, 4, 24
Daylana a ®	la alafan	11
Beclazone®	baclofen	11
benazepril	Benadryl®	8
benzathine benzylpenicillin	benzylpenicillin	3
benzodiazepines		3, 4
betaine HCl	betaine anhydrous	8
Betnovate RD®	Betnovate®	12
bisoprolol	bisacodyl	3, 4
Brevibloc®	Betaloc®	2
Brufen®	Isoptin®	16
bumetanide	budesonide	3, 4, 11
buprenorphine	hydromorphone	8
Buscopan®	baclofen	17
buspirone	bupropion	8, 9, 23
BuTrans®	"Dtrans®"	11, 31
BuTrans®	Transiderm Nitro®	2
BuTrans®	Transtec®	2
Calcichew [®]	Calcichew D3 Forte®	2
captopril	carvedilol	8, 23
carbamazepine	carbimazole	3, 4, 30
carbamazepine	oxcarbazepine	3, 4, 8, 9, 11, 23
carbocisteine	carbamazepine	5, 30
carboplatin	cisplatin	2, 3, 4, 5, 8, 9, 10, 23
	0.0p.a.c	_, 5, ., 5, 5, 5, 15, 25

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Drug name 1	Drug name 2	Reference
carvedilol	captopril	3, 4, 8
Casodex®	Codalax®	11, 30
cefuroxime	sulfasalazine	8
Centyl®	Coversyl®	11
cephalosporins	cefalexin, cefixime, cefotaxime, cefradine, ceftaroline, ceftazidime, ceftriaxone, cefuroxime	3, 4, 5, 8, 9, 11, 23
cetirizine	sertraline	8, 23
cetirizine	stavudine	8
chlordiazepoxide	chlorpromazine	8, 9, 23
chlorphenamine	chloramphenicol	11
ciclosporin	cycloserine	3, 4
ciclosporin	Cyklokapron®	5
cimetidine	Syntometrine®	26
cipramil	ciproxin	3, 4
ciprofloxacin	cefuroxime	11
citalopram	escitalopram	13
clarithromycin	ciprofloxacin	3, 4
clarithromycin	clindamycin	3, 5, 11
Clexane® different strengths		2
clindamycin	daptomycin	11
clobazam	clonazepam	2, 6, 8, 9, 33
clomifene	clomipramine	3, 4, 8, 9, 23
clomipramine	chlorpromazine	3, 4
clomipramine	clonidine	3
clonazepam	clonidine	8, 9, 23
clonazepam	clozapine	3, 5, 8, 9, 11
clonazepam	lorazepam	8, 9, 23
clonidine	amiodarone	12
clonidine	Clonactil®	5
clonidine	clozapine	8, 9
clotrimazole	cotrimoxazole	5
clozapine	chlorpromazine	3
clozapine	clobazam	9, 11
codeine	Lodine®	8
colchicine	Calcichew®	11
Colchicine (Halewood)	Propylthiouracil (Halewood)	11
Cozaar®	Zocor®	8, 23
Crinone®	Creon®	11
Cyclimorph®	cyclizine	11, 31
cyclophosphamide	ciclosporin	8

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Drug name 1	Drug name 2	Reference
cycloserine	ciclosporin	8, 9, 10, 11, 23
Cytotec®	Cyclogest®	26, 38
dabigatran	vigabatrin	8
dabrafenib	dasatinib	10
dactinomycin	daptomycin	3, 4, 8, 9, 10, 23, 31
dapagliflozin	dabigatran	5
dasatinib	daclizumab	2
dasatinib	lapatinib	2
daunorubicin	doxorubicin	3, 4, 8, 9, 10, 23
daunorubicin	idarubicin	4, 8. 23
desmopressin nasal drops	desmopressin nasal spray	27
desmopressin	vasopressin	8
Denzapine®	olanzapine	5
dexamethasone	dexmedetomidine	8, 10
Diflucan®	Diprivan®	8, 23
Digibind®	digoxin	11
digoxin	doxazosin	3
diltiazem	diazepam	8, 9, 10
diltiazem SR	Diamicron MR®	5
dimenhydrinate	diphenhydramine	8, 9, 10, 23
Diovan [®]	Zyban®	8, 23
Diprivan®	ditropan	4, 8, 23
dipyridamole	disopyramide	3, 4, 5, 30
ditropan	diazepam	11
dobutamine	dopamine	2, 8, 9, 10, 23
docetaxel	paclitaxel	3, 4, 8, 9, 10, 23
dosulepin (dothiepin)	doxepin	3, 4
doxorubicin	doxorubicin liposomal	8
doxorubicin	idarubicin	8, 9, 10, 23
edoxaban	Endoxana [®]	14
edoxaban	enoxaparin	11
Eltroxin®	warfarin	2
Emcor®	Omacor®	11
Engerix B® Adult	Engerix B® Paediatric	8, 23
Epanutin®	Epilim®	2, 6, 24
ephedrine	epinephrine	8, 9, 10, 23
Epilim® different products	Сритеринис	2, 6, 24
epirubicin	eribulin	8, 9, 10
Eporatio®	NeoRecormon®	8, 9, 10
•		
escitalopram	citalopram	5, 26

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Drug name 1	Drug name 2	Reference
escitalopram	eslicarbazepine	27
esomeprazole	omeprazole	26
felodipine	Feldene®	11
fentanyl	sufentanil	8, 9, 10
fexofenadine	fesoterodine	11
flavoxate	fluvoxamine	8, 9
Floxapen®	Thiopental sodium	13
"Fluclox"	Flucol®	14
flumazenil	influenza vaccine	8, 23
fluoxetine	fluvoxamine	1, 3, 4
fluoxetine	paroxetine	3, 4, 8, 9, 11, 23
fluoxetine	duloxetine	3, 4, 8, 9, 11, 23
flupentixol	fluphenazine	3
fluphenazine	flavoxate	9
fluphenazine	fluvoxamine	8, 9
flurazepam	rivaroxaban	11
folic acid	folinic acid	2, 3, 8, 23, 24
fomepizole	omeprazole	8, 23
Foradil®	Toradol®	8
Fosamax®	Fosavance®	11
gabapentin	gemfibrozil	8
gemtuzumab	gemcitabine	2
gentamicin	gentian violet	8, 23
gliclazide	gliclazide MR	5
Glucobay®	Glucophage®	11
glyceryl trinitrate patch	lidocaine patch	12
glycine for irrigation	water for irrigation	11
guaifenesin	guanfacine	8
Healon®	Hyalgan®	8, 23
heparin - different strengths	-	2, 5, 18
Herceptin® SC	Herceptin® IV	2
HIV treatment (anti-retroviral combinations)	HIV treatment (other anti-retroviral combinations)	8, 11
Humalog®	Humalog Mix®	11
Humalog® products	Humulin® products	2, 3, 4, 5, 8, 9, 23
Humulin I®	Humulin M3®	31
Humulin S®	Humulin M3®	31
hydralazine	hydrochlorothiazide	4, 8, 9

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Drug name 1	Drug name 2	Reference
Hydrea®	Lyrica®	8
hydrochlorothiazide	hydroxyzine	8
hydrocortisone	hydroxyzine	12
hydromorphone	oxycodone	9
hydromorphone 20mg/ml	hydromorphone 50mg/ml	12
hydroxycarbamide	hydroxycobalamin	2
hydroxychloroquine	hydroxyurea	8
hydroxyzine	hydroxyurea	8, 10
hyoscine hydrobromide	hyoscine butylbromide	3
ibrutinib	imatinib	10
ibuprofen	ciclosporin	11
idarubicin	idarucizumab	8, 9
ifosfamide	cyclophosphamide	3, 4
Imigran [®]	Imuran®	2
imipramine	trimipramine	3
infliximab	rituximab	2, 3, 8, 9, 10, 23
Influenza vaccine	perflutren lipid microspheres	8
Influenza vaccine	tuberculin PPD	8
Innohep®	heparin (unfractionated)	11
Inspra®	Spiriva®	8, 23
insulin lente	insulin lispro	2
Intuniv [®]	Invega®	8
iodine	Lodine®	8, 23
"ISMN"	Istin®	5, 11
Isoptin SR®	isosorbide mononitrate SR	11
isotretinoin	tretinoin	2, 4, 8, 9, 23
IV solutions for infusion	sodium chloride 0.9%, glucose 5%, sodium chloride / glucose mixed solutions, Hartmann's solution	2, 11
Janumet®	Januvia [®]	3, 4, 8, 11, 23
Janumet®	Sinemet®	8, 23
Kabi PN 6C	Kabi PN 8C	11
Kaletra®	Keppra®	8, 23
Keflex®	Keppra®	8, 23
Kemadrin®	Puri-Nethol®	11
Kemadrin®	Valoid®	11
Keppra®	Kapake®	21
Keppra®	Keral®	21

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Drug name 1	Drug name 2	Reference
Ketalar®	ketorolac	3, 4, 8, 23
ketoralac	methadone	8, 23
labetalol	Lamictal®	8
labetalol	lamotrigine	8
Lamictal®	Lamisil®	3, 4, 6, 8, 9, 11, 23
Lamictal®	Largactil®	3, 4
Lamictal®	Lexapro®	11
lamivudine	lamotrigine	3, 4, 8, 9, 10, 23
lamotrigine	levetiracetam	8
lamotrigine	levothyroxine	8, 23
Lanoxin®	levothyroxine	8, 23
Lanoxin®	naloxone	8, 23, 30
lanthanum carbonate	lithium carbonate	8, 23
Lantus®	Lanvis®	1, 3
Lantus®	"lente"	8
Latuda®	Lantus®	8
leflunomide	lenalidomide	2
Leukeran®	leucovorin	8, 23
Leukeran®	Myleran®	8, 23
leucovorin	levoleucovorin	8
Levemir®	Lantus®	5, 11, 12
Levemir®	Levinan®	31
levetiracetam	levocarnitine	8, 9
levetiracetam	levofloxacin	8, 9, 11, 23
levetiracetam	levothyroxine	11
levobupivacaine	bupivacaine	11, 23
levocetirizine	levetiracetam	5
levothyroxine	liothyronine	8
Lexapro®	Lexotan®	5, 11
lidocaine - different strengths		2
lidocaine ampoules	water for Injection ampoules	2
linaclotide	linagliptin	8
Lipitor®	Cipramil®	11
Lipitor®	Loniten®	8, 23
Lipitor®	Zirtek®	8, 23
lisinopril	bisoprolol	11
lofepramine	loperamide	11
Lomotil®	Lamictal®	2
Lopid®	"Clopid"	11
lorazepam	lormetazepam	2
Losamel [®]	"Fosamel"	11

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Drug name 1	Drug name 2	Reference
Losec®	Lasix®	1, 5, 30
Lyrinel®	Lamictal®	11
Marcain [®]	Manuka Care®	2
Maxitrol [®]	Maxidex [®]	3
mefloquine	Malarone [®]	8, 35
Melfen®	metformin	11
memantine	methadone	8
mercaptamine	mercaptopurine	4, 32
metolazone	midodrine	11
metformin	metronidazole	8, 9, 23
methadone	methylphenidate	3, 4, 8, 23
methadone	metolazone	8
methimazole	metolazone	8, 9, 23
methotrexate	metoclopramide	3
methotrexate	metolazone	8
methylprednisolone	medroxyprogesterone	3, 8, 9
methylprednisolone acetate	methylprednisolone sodium succinate	3
metoprolol	metoclopramide	3
metronidazole	meptazinol	13
midazolam - different strengths		2
mifepristone	misoprostol	8, 9, 23
migalastat	miglustat	5, 8
mirabegron	mirtazepine	29
Mirap®	mirapexin	11
mirapexin	Molipaxin®	5
mirtazapine	nitrazepam	2, 11
mitomycin	mitoxantrone	8, 9
Mixtard®	NovoMix®	2
morphine	hydromorphone	1, 4, 8, 10, 23, 31
morphine liquid (non-concentrated)	morphine liquid (concentrated)	8
moxifloxacin	Molipaxin®	11
moxifloxacin	norfloxacin	3, 4
multivitamin	nitrofurantoin	11
mycophenolate mofetil	Mycophenolic acid	24
Mysoline®	midodrine	15
naloxone	nalbuphine	8
naloxone	naltrexone	24
naproxen	nefopam	11
nebuliser solution UDVs	other nebulizer solution UDVs	11, 12
Neoral®	Inderal®	3, 4

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Drug name 1	Drug name 2	Reference
NeoRecormon®	neomercazole	11
NeoRecormon®	neostigmine	5
NeoRecormon®	Neupogen®	11
Neotigason®	pyridostigmine	11
neratinib	nilotinib	8
neratinib	niraparib	8
Neurontin®	nitrofurantoin	11
Nexavar [®]	Nexium [®]	4, 8, 9, 23
nicardipine	nifedipine	8, 9, 23
nicardipine	nimodipine	8, 9
nifedipine	nimodipine	3, 4, 6, 8, 11, 23, 30
nilotinib	niraparib	8
nimodipine	amlodipine	5
nimodipine	nizatidine	4
Niopam® different strengths		2
noradrenaline	dexamethasone	28
NovoMix®	NovoRapid®	3, 4, 11, 23, 30, 31
obinutuzumab	ofatumumab	10
Ocuvite®	Orovite®	11, 17
olanzapine	quetiapine	8, 9, 11, 23
olmesartan	olanzapine	13
Omacor®	Omesar®	15, 30
ondansetron	olmesartan	5
opioids (e.g. Palexia®, oxycodone) SR	opioids (e.g. Palexia®, oxycodone) IR	11
Optilube®	Atropine Minijet®	13
Oramorph®	omeprazole	2
Oramorph®	Oxynorm®	6, 11, 31
oxybutynin	oxycodone	8
oxycodone	Oxycontin®	8, 9
Oxycontin®	Oxynorm [®]	3, 4, 11, 30, 31
paclitaxel	paclitaxel protein-bound particles	8
Palexia®	Oxynorm®	11
Palexia®	Plavix®	2
Palexia SR® tablets	Palexia® film coated tablets	6, 11, 31
pancuronium	calcium leucovorin	2
panitumumab	pertuzumab	10
paracetamol IV	sodium chloride 0.9% IV	11
Pariet®	paroxetine	17
paroxetine	duloxetine	3, 4, 8, 9, 11
paroxetine	piroxicam	8, 23

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Drug name 1	Drug name 2	Reference
pazopanib	ponatinib	8, 9
pegfilgrastim	peginterferon	3
penicillin	penicillamine	8, 9
Pentasa® granules	Salofalk® granules	12
Phenergan®	Nozinan®	11
Phenergan®	phenytoin	5
phenoxymethylpenicillin	penicillamine	3
pneumococcal vaccines	other pneumococcal vaccines	8
polyethylene glycol	propylene glycol	8
potassium chloride	potassium phosphate	11
povidone iodine sterile ophthalmic solution	povidone iodine disinfectant solution	11
Pradaxa®	Palexia®	2
Pradaxa®	Plavix®	8
Pradaxa®	Praxilene®	11
Pradaxa®	Ranexa®	2
prednisolone	prednisone	8, 9, 23
pregabalin	gabapentin	11
Primaxin®	Primacor®	3, 4
primidone	prednisone	3
primidone	primaquine	3
Procoralan®	nicorandil	11
procyclidine	prochlorperazine	3
procyclidine	promethazine	3
progesterone	dinoprostone	38
progesterone	misoprostol	38
Prograf®	Proscar®	8
Prograf®	Prozac®	3, 4, 8, 23
promethazine	prochlorperazine	3, 4
propranolol	prednisolone	33
propranolol	propofol	3, 4
propylthiouracil (Halewood)	colchicine (Halewood)	11
propylthiouracil	Puri-nethol®	8
Proscar®	Provera®	8, 23
Proscar®	Prozac®	11
Prostin E2®	epoprostenol (prostacyclin)	24, 25
Prostin E2®	progesterone	38
protamine	Protium®	13
Provera®	Prozac®	8, 23
Provigil®	Provasil® (dietary supplement)	11
Pyridoxal-5-phosphate (dietary supplement)	Pyridoxine	24
quetiapine	quinine	3

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Valcyte® Valtrex® 2, 8, 23	Tylex®	Toilax®	26
•	valaciclovir	valganciclovir	3, 4, 6, 8, 9, 11, 23
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	valganciclovir	ganciclovir	6

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Drug name 1	Drug name 2	Reference
valsartan	Vastarel®	5
Valtrex®	Galfer®	11
vandetanib	vemurafenib	10
Venofer®	Vfend®	8, 36
Venofer®	Vimpat®	8
Vesanoid [®]	Vesicare®	8, 23
Vfend®	Vimpat®	8
vinblastine	vincristine	3, 4, 8, 9, 10, 23
vinblastine	vinorelbine	3, 4
warfarin - different strengths		2
Xalatan®	Xalacom®	4, 11
Xanax [®]	Zantac®	8, 23
Xeloda®	Xenical®	8, 23
Yasmin®	Yaz®	8, 23
Zantac®	Zirtek®	8, 23
Zelapar®	Zyprexa®	8
Zerit®	Zirtek®	8
Zestril®	Xatral®	11, 30
Zestril®	Zyprexa®	8, 23
Zocor®	Zirtek®	8, 23
Zocor®	Zoton®	4
zonisamide	lacosamide	11
Zovirax [®]	Zithromax	26
Zovirax®	Zyvox®	8, 11, 23
zuclopenthixol decanoate	zuclopenthixol acetate	32
Zyprexa®	Zirtek®	8, 9

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SALAD Bar

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