

SALAD Bar

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

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On behalf of the Irish Medication Safety Network In consultation with Irish Medication Safety Network members

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.

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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 cannot 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". Alternatively, you may wish to view a defined alphabetized short list of SALAD Pairs. Go to 'Contents' and place the curser over the desired list to open.

5. Drugs were included if they were listed in any of: HPRA website³⁹, <u>www.medicines.ie</u>⁴⁰, BNF⁴¹ or FMA⁴².

The list will be updated periodically. If you have any SALAD pairs from your institution that 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.

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We recommend that:

- 1) organisations use their own experience, supplemented by this and/or other lists to compile their own SALAD list
- organisations consider development of a SALAD risk assessment tool (scoring risk of likelihood versus risk of harm) to determine the risk associated with a particular SALAD pairing⁴⁶
- 3) local SALAD lists are short, relevant, and regularly reviewed

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Drug 1	Drug 2	Reference
Acerycal® different strengths		34
Acerycal®	perindopril	11
acetic acid for irrigation	glacial acetic acid	8
Acyclovir	valaciclovir	45
Actimel®(<i>dietary supplement</i>)	Actonel®	30
Actonel®	Actos®	4, 8, 23
ActRapid [®]	NovoRapid®	11
Additrace®	Addiphos®	2, 45
Adalat Retard®	Adalat LA®	43
Adenosine	amiodarone	11
adenuric acid	alendronic acid	43
Adrenaline	noradrenaline	2, 45
Adrenaline	adenosine	45
adrenaline 1: 1,000	adrenaline 1: 10,000	2, 45
Adrenaline Minijet®	Atropine Minijet®	2
Advagraf®	Prograf®	6, 45
afatinib	axitinib	10
Aggrastat®	argatroban	8, 23
Aldomet®	Aldactone®	4
alfentanil	fentanyl	5, 31
alfentanil 500mcg/ml	alfentanil 5mg/ml	12
Alkeran®	Leukeran®	4, 8, 23, 31
Alkeran®	Myleran®	3, 4, 8, 23
allopurinol	atenolol	3
alprazolam	clonazepam	8
allopurinol	haloperidol	43
alprazolam	lorazepam	8, 9, 23
amantadine	amiodarone	8, 23
Amaryl®	avamys®	44
Amaryl®	Reminyl®	1, 8, 23
Ambisome®	amphotericin B	2, 8, 23
Ambisome®	Abelcet®	43

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Amikin®	Kineret®	8, 23
amiloride	amlodipine	5, 8, 9, 11, 23, 24, 43,44
amiodarone	amlodipine	3, 4, 5, 10, 23, 30,43
amiodarone	anidulafungin	45
amisulpiride	aripiprazole	5
amisulpiride	amitriptyline	3
amisulpride	sulpiride	43
amitriptyline	aminophylline	3, 4, 5, 11, 43
amitriptyline	nortriptyline	43
amlodipine	amitriptyline	3, 4, 43
amlodipine	nimodipine	33, 45
amlodipine	amiloride	43
amoxicillin	amoxicillin with clavulanic acid	45
amphotericin B liposomal	amphotericin B	5, 8
Anexate®	Anectine®	30, 43
Anxicalm [®]	amlodipine	43
Apidra®	Spiriva [®]	8
Aranesp [®]	Avamys®	45
Aricept®	Azilect®	8, 23
aripiprazole	proton pump inhibitors	8
aripiprazole	rabeprazole	4, 8, 9, 23
Arthrimel®	Arythmol [®]	11
Atacand®	antacid	8
Atacand [®]	Atacand Plus®	11
atenolol	Actonel®	11
atenolol	amlodipine	33
Ativan®	Atrovent®	11
Atrovent®	Combivent®	43
atorvastatin	atomoxetine	8
Avastin®	Avaxium [®]	1, 3, 4
azacitidine	azathioprine	8, 9, 10, 23
azathioprine	azithromycin	3, 4, 5, 10, 31, 43, 44
azithromycin	erythromycin	3, 4, 24, 45

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Drug 1	Drug 2	Reference
Beclazone®	baclofen	11
benzathine benzylpenicillin	benzylpenicillin	3, 45
benzodiazepines	clobazam, clonazepam, diazepam, lorazepam, nitrazepam, oxazepam	3, 4
Betnovate RD®	Betnovate®	12
bisoprolol	bisacodyl	3, 4
Brevibloc®	Betaloc®	2
budesonide	beclomethasone	43
bumetanide	budesonide	3, 4, 43
buprenorphine	hydromorphone	8
Buram [®]	Burinex [®]	43
Buscopan®	baclofen	17
buspirone	bupropion	8, 9, 23
BuTrans®	Transiderm Nitro®	2
BuTrans®	Transtec®	2, 43

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Drug 1	Drug 2	Reference
Calcichew®	Calcichew D3 Forte®	2, 45
Calcichew ®	colchicine	45
Calvive®	Sando-K®	45
Calvive ®	Phosphate Sandoz®	45
calcium gluconate	calcium resonium	45
captopril	carvedilol	8, 23
carbamazepine	carbimazole	3, 4, 30, 43
carbamazepine	eslicarbazepine	11
carbamazepine	oxcarbazepine	3,4,8,9,23,43
carbamazepine	clonazepam	43
carbocisteine	carbamazepine	5, 30
carboplatin	cisplatin	2, 3, 4, 5, 8, 9, 10, 23
Cardicor®	Cardura®	43
Cardicor®	carvedilol	43
Cardura [®]	candesartan	44
carvedilol	captopril	3, 4, 8
Centyl [®]	Coversyl®	11
Centyl [®]	Centrum®	43
Centyl®preparations	Low Centyl K [®] , Centyl K [®]	43
cephalosporins	cefalexin, cefazolin, cefixime, cefotaxime, cefradine, ceftaroline, ceftazidime, ceftriaxone, cefuroxime	3, 4, 5, 8, 9, 23, 43, 44
cetirizine	sertraline	8, 23
cetirizine	stavudine	8
chlordiazepoxide	chlorpromazine	8, 9, 23, 43
chlorphenamine	chloramphenicol	11
chlorpromazine	clomipramine	43
ciclosporin	Cyklokapron®	5, 43
Cipramil [®]	Ciproxin [®]	3, 4
ciprofloxacin	cefuroxime	11
citalopram	escitalopram	8, 13, 43, 45
clarithromycin	ciprofloxacin	3, 4
clarithromycin	clindamycin	3, 5, 11
Clexane® different strengths		2
clindamycin	daptomycin	11

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clobazam	clonazepam	2, 6, 8, 9,33, 43, 45
clomifene	clomipramine	3, 4, 8, 9, 23
clomipramine	chlorpromazine	3, 4
clomipramine	clonidine	3
clonazepam	clonidine	8, 9, 23
clonazepam	clozapine	3, 8, 9, 11, 43
clonazepam	lorazepam	8, 9, 23
clonidine	amiodarone	12
clonidine	Clonactil®	5, 43
clonidine	clonazine	43
clonidine	clozapine	8, 9
clotrimazole	co-trimoxazole	5, 43, 45
clozapine	chlorpromazine	3
clozapine	clobazam	11
clozapine	olanzapine	43
Combodart®	Combivent®	43
Coversyl®	Coversyl Plus®	43
Cozaar®	Zocor®	8, 23
Cozaar®	Cordarone X®	43
Crestor®	Cipramil®	43
Crinone®	Creon®	11
cyclophosphamide	ciclosporin	8
Cystrin®	Hytrin®	43
Cytotec	Cyclogest®	26, 38, 45

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Drug 1	Drug 2	Reference
dabigatran	vigabatrin	8
dabrafenib	dasatinib	10
dactinomycin	daptomycin	3, 8, 9, 10, 23, 31,43
Daktacort®	Daktarin®	45
dapsone	dopamine	43
dasatinib	lapatinib	2
daunorubicin	doxorubicin	3, 4, 8, 9, 10, 23
daunorubicin	idarubicin	4, 8. 23
desferrioxamine	deferasirox	44
desmopressin nasal drops	desmopressin nasal spray	27, 45
desmopressin	vasopressin	8
Denzapine®	olanzapine	5
dexamethasone	dexmedetomidine	8, 10
dexamethasone	betamethasone	45
Diflucan®	Diprivan®	8, 23
Digibind [®]	digoxin	11
diltiazem	diazepam	8, 9, 10
diltiazem SR	Diamicron MR®	11
dimenhydrinate	diphenhydramine	8, 9, 10, 23
dinoprostone	epoprostenol	45
Diovan®	Zyban [®]	8, 23
Diprivan®	Ditropan [®]	4, 8, 23
dipyridamole	disopyramide	3, 4, 30, 43, 45
Ditropan [®]	diazepam	11
dobutamine	dopamine	2, 8, 9, 10,23, 45
docetaxel	paclitaxel	3, 4, 8, 9, 10, 23
dosulepin (dothiepin)	doxepin	3, 4
doxorubicin	doxorubicin liposomal	8
doxorubicin	idarubicin	8, 9, 10, 23

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E - H

Drug 1	Drug 2	Reference
edoxaban	Endoxana®	14
edoxaban	Enoxaparin	11
Eltroxin®	Warfarin	2
Emcor®	Omacor®	11
empagliflozin	Dapagliflozin	45
Engerix B® Adult	Engerix B [®] Paediatric	8, 23
Epanutin®	Epilim [®]	2, 6, 24, 43, 45
ephedrine	Epinephrine	8, 9, 10, 23
Epilim® different products		2, 6, 24, 45
epirubicin	Eribulin	8, 9, 10
Eporatio [®]	NeoRecormon®	11
escitalopram	Citalopram	5, 26
escitalopram	eslicarbazepine	27
esomeprazole	Omeprazole	26, 45
ezitimibe/atorvastatin	ezitimibe/simvastatin	45

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Drug 1	Drug 2	References
fampridine	Famotidine	43
felodipine	Feldene®	11, 43
fentanyl	Sufentanil	8, 9, 10
fexofenadine	Fesoterodine	11
flavoxate	Fluvoxamine	8, 9
Floxapen®	thiopental sodium	13
"Fluclox"	Flucol®	14, 43
flucloxacillin	Fluconazole	43
Fluimucil®	Flumazenil	43
flumazenil	Fomepizole	5, 11
flumazenil	influenza vaccine	8, 23
fluoxetine	Fluvoxamine	1, 3, 4, 43
fluoxetine	Paroxetine	3, 4, 8, 9, 11, 23, 43
fluoxetine	Duloxetine	3, 4, 8, 9, 11, 23
flupentixol	Fluphenazine	3
fluphenazine	Fluvoxamine	8, 9
flurazepam	Flunitrazepam	43
folic acid	folinic acid	2, 3, 8, 23, 24, 43,45
fomepizole	Omeprazole	8, 23
Foradil®	Toradol [®]	8
Fosamax®	Fosavance [®]	11
furosemide	Frumil®	45

Drug 1	Drug 2	Reference
gabapentin	Gemfibrozil	8
gemtuzumab	Gemcitabine	2
gentamicin	gentian violet	8, 23
Glucobay [®]	Glucophage [®]	11
glyceryl trinitrate patch	lidocaine patch	12
glycine for irrigation	water for irrigation	11
guaifenesin	Guanfacine	8

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Drug 1	Drug 2	Reference
haloperidol	Halcion®	43
haloperidol	Paliperidone	43
heparin - different strengths		2, 18, 45
Herceptin® SC	Herceptin® IV	2
HIV treatment (anti-retroviral combinations)	HIV treatment (other anti- retroviral combinations)	11, 45
Humalog [®]	Humalog Mix®	11, 45
Humalog® products	Humulin® products	2, 3, 4, 5, 8, 9, 23, 45
Humulin I [®]	Humulin M3®	31, 45
Humulin S®	Humulin M3®	31, 45
hydralazine	hydrochlorothiazide	4, 8, 9
hydralazine	Hydroxyzine	6, 8, 9, 11, 23, 43, 44, 45
Hydrea®	Lyrica®	8
hydrochlorothiazide	Hydroxyzine	8
hydrocortisone	Hydroxyzine	12
hydromorphone	Oxymorphone	9
hydromorphone 20mg/ml	hydromorphone 50mg/ml	12
hydroxoarbamide	hydroxocobalamin	2, 43, 45
hydroxychloroquine	Hydroxyurea	8
hydroxyzine	Hydroxyurea	8, 10
hyoscine hydrobromide	hyoscine butylbromide	3, 45

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Drug 1	Drug 2	Reference
ibrutinib	Imatinib	10
ibuprofen	Ciclosporin	11
idarubicin	Idarucizumab	8, 9
ifosfamide	cyclophosphamide	3, 4
Imigran®	Imuran®	2
imipramine	Trimipramine	3
Imuran®	Zyloric®	45
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 different types		45
Intelence®	Isentress®	43
Intraocular different types	mitomycin 0.2mg/ml, 5- flourouracil 5mg/0.2ml, bevacizumab 5mg/0.2ml, vancomycin 2mg/0.2ml	45
intralipid	Propofol	45
Intuniv [®]	Invega®	8
iodine	Lodine®	8, 23
"ISMN"	Istin®	11, 43
Isoptin SR®	isosorbide mononitrate SR	11
Isosorbide dinitrate	Isosorbide mononitrate	45
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

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Drug 1	Drug 2	Reference
Janumet®	Januvia [®]	3, 4, 8, 11, 23
Janumet [®]	Sinemet®	8, 23

Drug 1	Drug 2	Reference
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
Keppra [®]	Ketamine	43
Keral®	Kapake [®]	21
Ketalar®	Ketorolac	3, 4, 8, 23

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Drug 1	Drug 2	Reference
labetalol	Lamictal®	8
labetalol	Lamotrigine	8
Lamictal®	Lamisil®	3, 4, 6, 8, 9, 11, 23, 45
Lamictal®	Largactil®	3, 4
Lamictal®	Lexapro®	11
lamivudine	Lamotrigine	3, 4, 8, 9, 10, 23
lamotrigine	Levetiracetam	8
lamotrigine	Levothyroxine	8, 23, 43
Lanoxin®	Levothyroxine	8, 23
Lanoxin®	Naloxone	8, 23, 30
lanthanum carbonate	lithium carbonate	8, 23
Lantus®	Lanvis®	1, 3
Lasix®	Losec®	43
Latuda®	Lantus®	8
leflunomide	Lenalidomide	2
lercanidipine	Lisinopril	43
Leukeran®	Leucovorin	8, 23
Leukeran®	Myleran®	8, 23
Levemir®	Lantus®	5, 11, 12
levetiracetam	Levocarnitine	8, 9
levetiracetam	Levofloxacin	8, 9, 11, 23
levetiracetam	Levothyroxine	11, 45
levobupivacaine	Bupivacaine	11, 23
levocetirizine	Levetiracetam	5
levothyroxine	Liothyronine	8
Lexapro®	Lexotan®	5, 11, 43
Librium [®]	Sibelium [®]	43
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
lithium	Librium [®]	43, 44
lofepramine	Loperamide	11, 43
Lomotil®	Lamictal®	2, 43
Lomotil®	Lamotrigine	43
lorazepam	Lormetazepam	2, 43

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losamel®	Losartan	44
Losec	Lasix	1, 5, 30
Lyrinel	Lamictal [®]	11

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Drug 1	Drug 2	Reference
Macrodantin [®]	Macrobid®	45
Maxitrol®	Maxidex®	3
mebendazole	Metronidazole	45
mefloquine	Malarone®	8, 35
Melfen®	Metformin	11
memantine	Methadone	8
meningococcal containing vaccines	Other meningococcal containing vaccines	45
Meptid [®]	Meptin®	45
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, 43
metronidazole	Meptazinol	13
metronidazole	metoclopramide	43
Micardis®	Nicorandil	43
midazolam - different strengths		2, 45
midazolam	metoclopramide	43
midazolam	vitamin K	11
midodrine	Metolazone	11, 43
mifepristone	Misoprostol	8, 9, 23, 45
migalastat	Miglustat	8
mirabegron	Mirtazepine	29, 43
Mirap®	Mirapexin	11
Mirapexin®	Molipaxin [®]	5
mirtazapine	Nitrazepam	2, 11, 43
mirtazapine	Mirabegron	43
mitomycin	Mitoxantrone	8, 9
Mixtard®	NovoMix®	2

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morphine different strengths		45
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, 45
Mysoline [®]	Midodrine	15

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Drug 1	Drug 2	Reference
n-acetylcysteine	carbocysteine	43
naloxone	Nalbuphine	8
naloxone	Naltrexone	24, 45
naproxen	Nefopam	11
nasonex	Nasocort	45
nasonex	Nasobec	45
nebuliser solution UDVs	other nebulizer solution UDVs	11, 12
NeoRecormon®	neomercazole	11
NeoRecormon®	Neupogen®	11, 43
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
nicorandil	Nicorette patch	43
Nicorette patch	GTN patch	43
nifedipine	nifedipine MR	11, 43
nifedipine	Nimodipine	3, 4, 6, 8, 11, 23, 30, 43
nilotinib	Niraparib	8
nimodipine	Amlodipine	5, 45
nimodipine	Nicardipine	6
nimodipine	Nizatidine	4
nimodipine	Nifedipine	43
nitrazepam	mirtazapine	43
Niopam® different strengths		2
norepinephrine	epinephrine	45
NovoMix®	NovoRapid®	3, 4, 11, 23,30,31, 43, 45

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Drug 1	Drug 2	Reference
obinutuzumab	ofatumumab	10
Ocuvite Lutein®	Orovite®	11, 17, 43
olanzapine	quetiapine	8, 9, 11, 23
olanzapine	mirtazapine	43
olanzapine	olsalazine	43
olmesartan	olanzapine	13
Omacor®	Omesar®	15, 30, 43
omeprazole	olanzapine	43
ondansetron	olmesartan	5
opioids (e.g. Palexia®, oxycodone)	opioids (e.g. Palexia®, oxycodone)	11
Optilube [®]	Atropine Minijet®	13
Oramorph®	omeprazole	2, 11, 43
Oramorph®	Oxynorm®	11, 31, 43, 45
oxybutynin	oxycodone	8
oxycodone	Oxycontin®	8, 9, 45
Oxycontin [®]	Oxynorm®	3, 4, 11, 30, 31, 43, 45
Oxycontin [®]	oxybutynin	43

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Drug 1	Drug 2	Reference
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, 43
panitumumab	pertuzumab	10
paracetamol IV	sodium chloride 0.9% IV	11, 45
paracetamol	prednisolone	43
Pariet [®]	Paroxetine	17
paroxetine	Duloxetine	3, 4, 8, 9, 11
paroxetine	Piroxicam	8, 23
paroxetine	Fluoxetine	43
pazopanib	Ponatinib	8, 9
PCA oxycodone	PCA morphine	45
pegaspargase	L-asparaginase	6
pegfilgrastim	peginterferon	3
penicillin	penicillamine	8, 9, 45
Pentasa® granules	Salofalk® granules	12
Phenergan®	Nozinan®	11
Phenergan®	Phenytoin	5
phenoxymethylpenicillin	penicillamine	3
phytomenadione	phenindione	43
Plaquenil®	Priadel®	43
Plendil®	Perindopril	43
pneumococcal polyvalent vaccine	pneumococcal-7 valent vaccine	8
polyethylene glycol	propylene glycol	8
potassium chloride	potassium phosphate	11
potassium chloride	sodium chloride	5, 43
povidone iodine sterile ophthalmic solution	povidone iodine disinfectant solution	11
Pradaxa®	Palexia®	2
Pradaxa®	Plavix®	<u> </u>
Pradaxa®	Pravilene®	<u> </u>
Pradaxa®	Ranexa®	2
prednisolone	Prednisone	8, 9, 23
•	Gabapentin	
pregabalin	Prednisone	11, 5, 43
primidone	rieunisone	3

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primidone	Primaquine	3
procyclidine	prochlorperazine	3
procyclidine	promethazine	3
progesterone	dinoprostone	38, 45
progesterone	misoprostol	38
Prograf [®]	Prostap [®]	43
Prograf [®]	Proscar [®]	8
Prograf [®]	Prozac [®]	3, 4, 8, 23
promethazine	prochlorperazine	3, 4
propranolol	prednisolone	33
propranolol	Propofol	3, 4
propylthiouracil	Puri-nethol®	8
Proscar [®]	Provera®	8, 23
Proscar [®]	Prozac [®]	11
Prostin E2®	epoprostenol (prostacyclin)	24, 25, 45
Prostin E2®	progesterone	38
protamine	Protium [®]	13, 45
Protium [®]	Prothiaden®	43
Provera [®]	Prozac [®]	8, 23
Prozac [®]	Prazepam	43
Prozac [®]	promethazine	43
pyridoxal-5-phosphate (<i>dietary</i> supplement)	Pyridoxine	24, 45
pyrazinamide	pyrimethamine	11
pyrimethamine	Primaquine	43

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Q-T

Drug 1	Drug 2	Reference
quetiapine	Quinine	3, 6, 43
quetiapine	quinidine	6
quetiapine	sertraline	3, 4
quinine	quinidine	43

Drug 1	Drug 2	References
rabeprazole	aripiprazole	8, 9, 23
rabeprazole	pantoprazole	44
ramipril	Reminyl [®]	43
Ranexa®	Rasilez [®]	11
rasagiline	repaglinide	8
rasilez [®]	rasagiline	45
remdesivir	Remsima®	5
Renagel [®]	Renvela [®]	8, 23
Resolor®	Relistor®	11, 20
Retrovir [®]	ritonavir	8, 23
ribavirin	riboflavin	8
rifampicin	rifampicin combination products (e.g. Rifater®, Rifinah®)	2, 8, 11, 23, 43, 45
rifampicin	rifaximin	4, 6, 8, 9, 11, 23
risperidone	risedronate	24, 45
risperidone	ropinirole	4, 8, 9, 23, 32, 33, 43
rituximab	cetuximab	3
rivaroxaban	apixaban	11
rivastigmine	rotigotine	5, 11
Rocephin®	Rocephin® IM	22
Rocuronium [®]	Atracurium [®]	43
ropinirole	Regurin®	43

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Drug 1	Drug 2	Reference
saline	sodium lactate	45
Sandimmun®	Sandostatin®	8, 9, 23
Sandocal®	Phosphate Sandoz®	24
Sandocal®	Sando-K®	24
Sando-K®	Phosphate Sandoz®	5, 11, 45
saxagliptin	Sitagliptin	4, 8, 9, 10
Scopoderm®	Transiderm [®]	43
senna	Serc®	11
Senokot®	Seroxat®	30, 43
Septrin liquid	Lanoxin PG liquid	45
Seroquel®	Serlan®	11
Seroquel®	Seroquel XR®	8, 23
sertraline	Cetirizine	8
sildenafil	Solifenacin	45
silodosin	Sirolimus	8
simvastatin	Atorvastatin	45
Sinemet® different strengths		5, 45
Sinemet®	Senokot®	43
sirolimus	Tacrolimus	3, 4
sitagliptin	Sumatriptan	4, 8, 9, 23
sitagliptin	Sertraline	45
Slow K®	Slow Sodium®	18, 43
Slow K®	Sando Sodium®	45
sodium chloride	sodium citrate	45
sodium chloride 0.9%	water for Injection ampoules	2
sodium chloride 0.9% for	sterile water for irrigation	11, 45
sodium phosphate	potassium phosphate	11, 12
sodium valproate	sodium fusidate	43
Solpadeine®	Solpadol®	5, 11, 26, 45
Solu-Cortef®	Solu-Medrone®	8, 9,45
Solu-Medrone®	Depo-Medrone®	6, 8, 9, 11-14, 18, 45
sorafenib	Sunitinib	8, 9, 10
sotalol	Sudafed®	8, 23
spiolto	Spiriva	45
Span K [®]	Slow Na®	45
"statins"	Nystatin	8
sulfadiazine	Sulfasalazine	2, 3, 4, 5, 8, 9, 11, 23,
		32, 33, 43, 45

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sulfonylureas (gliclazide, glimepiride, glipizide)		2, 4
sumatriptan	Zolmitriptan	8, 23
symbicort [®]	pulmicort®	45
Synacthen®	Syntometrine®	13, 43
Syntocinon [®]	Syntometrine®	2, 26
Syntocinon [®]	Synacthen®	45
Syntometrine®	Sandostatin [®]	31, 45

Drug 1	Drug 2	Reference
tacrolimus	Tamsulosin	8
tamox®	parox [®]	45
tapentadol prolonged release	tapentadol immediate release	6
Tarceva [®]	Tresiba®	8
Targaxan [®]	Targin [®]	2
Targin® different strengths		2
Targin [®]	Triapin [®]	43
Tegretol® - different strengths		2
Tegretol®	Tegretol Retard®	2, 6, 8, 23, 24, 45
Tegretol®	Trental®	4, 8, 9, 11, 23
telmisartan	Olmesartan	45
temozolomide	Temsirolimus	2
tetanus-containing vaccines	other tetanus-containing vaccines	24, 45
tetanus diphteria typhoid	tuberculin PPD	8
tetanus vaccine	tetanus immunoglobulin	43
Teveten®	Tegretol®	43
theophylline	aminophylline	43
thiopental	sodium thiosulphate	11
tiagabine	Tizanidine	8, 9, 23, 43
Toujeo®	Trajenta®	8
Toujeo®	Tresiba®	8
Toujeo®	Trulicity [®]	8
TPN Triomel® 9g N/L	TPN Triomel® 12g N/L	45
Trajenta®	Tresiba®	8
Trajenta®	Trulicity®	8
tramadol	Tapentadol	4, 45
tramadol	Temodal [®]	3, 4
tramadol	Toradol®	4

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tramadol	Trazodone	8, 9, 23
tranexamic acid	Bupivacaine	45
trastuzumab	trastuzumab-emtansine	8, 37
Tresiba®	Trulicity®	8
trifluoperazine	Trazodone	45
Trileptal®	Tegretol Retard®	43

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valaciclovir	valganciclovir	3, 4, 6, 8, 9, 11, 23, 43, 45
Valcyte®	Valtrex [®]	2, 8, 23
valganciclovir	Ganciclovir	6
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

Drug 1	Drug 2	Reference
warfarin - different strengths		2

Drug 1	Drug 2	Reference
Xalatan®	Xalacom [®]	4, 11, 45
Xanax®	Xatral [®]	43
Xeloda [®]	Xenical [®]	8, 23

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Drug 1	Drug 2	Reference
Yasmin [®]	Yaz [®]	8, 23

Drug 1	Drug 2	Reference
Zanidip [®]	Zanaflex®	43
Zestril [®]	Zestoretic®	43
Zestril [®]	Xatral [®]	11, 30
Zestril®	Zyprexa [®]	8, 23
Zispin [®]	Zyprexa [®]	43
Zocor®	Zirtek [®]	8, 23
Zocor®	Zoton®	4
Zofran [®]	Zoton®	43
zonisamide	Lacosamide	11
zopiclone	Zolpidem	5, 43
Zovirax [®]	Zithromax®	26, 45
Zovirax®	Zyvox®	8, 11, 23
zuclopenthixol decanoate	zuclopenthixol acetate	32
Zyprexa®	Zirtek [®]	8, 9

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Every effort has been made to ensure the accuracy of the content of this document. However, the IMSN cannot accept legal responsibility for any errors or omissions.

References

- World Health Organization. Patient Safety Solutions Volume 1, Solution 1, May 2007: Look-Alike, Sound-Alike Medication Names. Accessed at: <u>ps-solution1-look-alike-sound-alike-medication-names.pdf</u> (who.int) on 15th April 2024 Copy on file with IMSN.
- 2. Hyland & Oates, Survey of Sound-Alike Look-Alike drug (SALAD) pairs in Irish Hospitals in 2008 and 2014. Hospital Pharmacy News, Issue 16. Copy on file with IMSN.
- Health Quality and Safety Commission New Zealand. Aotearoa New Zealand Tall Man Lettering List, List updated June 2020. Accessed at: <u>Aotearoa New Zealand Tall Man lettering list June 2020.pdf (hqsc.govt.nz)</u> on 20th December 23. Copy on file with IMSN.
- Australian Commission on Safety and Quality in Health Care. National Tall Man Lettering List, December 2020. Accessed at: https://www.safetyandquality.gov.au/publications-and-resources/resource-library/national-tall-man-lettering-list on April 15th, 2024. Copy on file with IMSN.
- 5. Mater Misericordiae University Hospital. Medication Safety Alert No 20, October 2022: Sound-Alike, Look-Alike Drugs (SALADs) (Unpublished)
- 6. St. Vincent's University Hospital. Sound Alike Look Alike Drugs (SALADS) poster. February 2024 (Unpublished)
- 7. Tallaght University Hospital. Medication Safety Alert, updated 2023 (Unpublished)
- 8. Institute for Safe Medication Practices. ISMP List of Confused Drug Names. 2023. Copy on file with IMSN.
- Institute for Safe Medication Practices. FDA and ISMP Lists of Look-Alike Drug Names with Recommended Tall Man Letters, November 2016. Accessed at: https://www.ismp.org/recommendations/tall-man-letters-list on August 23rd, 2018.
 Copy on file with IMSN.
- Institute for Safe Medication Practices Canada. Application of TALLman Lettering for Selected High- Alert Drugs in Canada, October 2015. Accessed at: https://www.ismp-canada.org/download/safetyBulletins/2015/ISMPCSB2015-10 TALLman.pdf on December 23rd, 2023. Copy on file with IMSN.
- 11-29. IMSN member hospitals personal communications (unpublished). SALAD Bar. IMSN Version 2 November 2019. Copy on File with IMSN
- Irish Medication Safety Network. Briefing Document on Sound-Alike Look-Alike Drugs (SALADs). May 2010. Archived at: <u>Microsoft Word - Briefing Document on Sound Alike Look Alike Drugs SALADs June 2010.doc (imsn.ie)</u>
- 31. Collated data from multiple sources personal communication (unpublished). SALAD Bar. IMSN Version 2 November 2019. Copy on File with IMSN <u>SALADBARDec2019-1.pdf</u> (imsn.ie)

Publication Date: August 2024 (version 3)

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Every effort has been made to ensure the accuracy of the content of this document. However, the IMSN cannot accept legal responsibility for any errors or omissions.

- 32. Medicines and Healthcare products Regulatory Agency. Recent drug-name confusion: Drug Safety Update. 24 April 2013. Accessed at: https://www.gov.uk/drug-safety-update/recent-drug-name-confusion on August 23rd, 2018. Copy on file with IMSN.
- 33. Medicines and Healthcare products Regulatory Agency. Drug-name confusion: reminder to be vigilant for potential errors. Drug Safety Update 11 (6) p6, January 2018. Accessed at: https://www.gov.uk/drug-safety-update/drug-name-confusion-reminder-to-be-vigilant-for-potential-errors on December 20th ,2023. Copy on file with IMSN.
- 34. Irish Medicines Board. Avoiding Medication Errors with Perindopril Arginine / Amlodipine (Acerycal) Combination Products. Drug Safety Newsletter Issue 36, p6, March 2010. Available from: https://www.hpra.ie/homepage/about-us/publications-forms/newsletters?page=23&type=ALL&orderby=PUBLICATIONDATE_NEWEST Copy on file with IMSN.
- 35. Institute for Safe Medication Practices. Mefloquine Not the same as Malarone! Acute Care ISMP Medication Safety Alert! 20 (14) July 16, 2015. https://www.ismp.org/sites/default/files/attachments/2018-03/20150716.pdf Last accessed 17/01/2024
- 36. Institute for Safe Medication Practices. Mix-ups among "V"-drugs. Acute Care ISMP Medication Safety Alert! 20 (18) p3, September 10, 2015.
- 37. Irish Medication Safety Network. Safety Alert: Confusion risk with trastuzumab emtansine (Kadcyla®) and trastuzumab, July 12, 2016. www.imsn.ie Copy on file with IMSN. Trastuzumab EMTANSINE (Kadcyla®) and trastuzumab- Risk of Confusion (Safety Alert) Irish Medication Safety Network (imsn.ie)
- 38. Irish Medication Safety Network. Safety Alert: CycloGEST Cytotec Errors in Pregnancy, March 26, 2019. www.imsn.ie Copy on file with IMSN. CycloGESTCytoTECA2019.pdf (imsn.ie)
- 39. Health Products Regulatory Authority. https://www.hpra.ie/homepage/medicines. Last accessed February 2024
- 40. Irish Pharmaceutical Healthcare Association. https://www.medicines.ie/ Accessed on July 2nd, 2019
- 41. Medicines Complete. Royal Pharmaceutical Society. British National Formulary. Last accessed February 2024.76. September 2018 March 2019
- 42. EMA. European Medicines Agency www.ema.europa.eu. Last accessed March 2024.
- 43. Sound-Alike/Look-Alike Medication Names Confuses in SJH. Updated February '23 (Unpublished)
- 44. State Claims agency; Focus on medication: SALAD incidents. Available from https://stateclaims.ie/learning-events/clinical-risk-insights-october-2023
- 45. IMSN member hospitals personal communication (Unpublished). IMSN SALAD Bar Version 3 April 2024.

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Every effort has been made to ensure the accuracy of the content of this document. However, the IMSN cannot accept legal responsibility for any errors or omissions.

46. Personal communication. Chief Pharmacist UPMC Hospitals, Ireland.
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