Medical Safety Information

Pharmaceuticals and Medical Devices Agency



No.69 November 2024

Mix-ups of Drugs Due to Name Similarities (No. 2)

Similarity of Nonproprietary and Brand Names,
 Similarities of Brand Names –



独立行政法人 医薬品医療機器総合機構

Pharmaceuticals and Medical Devices Agency



公益財団法人 日本医療機能評価機構 Japan Council for Quality Health Care

This is a joint project with the Project to Collect and Analyze Pharmaceutical Near-Miss Event Information by Japan Council for Quality Health Care. Please also refer to "Pharmaceutical Near-Miss Event Information to Be Shared No. 11 of Project to Collect and Analyze Pharmaceutical Near-Miss Event Information (11 2024)."

(1)

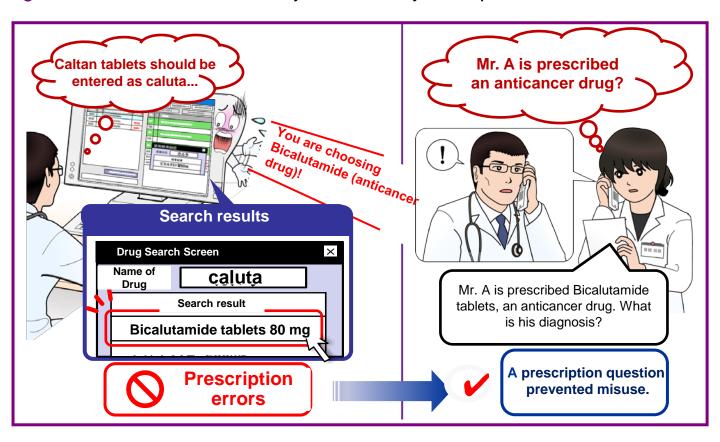
Drugs with Similar Nonproprietary Name and Brand Name

(Case 1)

When a doctor ordered "Caltan tablets (a drug for hyperphosphataemia)" during an inpatient prescription and entered "calta" in the search system, "Bicalutamide tablets (a drug for prostate cancer)" appeared as a candidate since Caltan tablets were not in the hospital's drug formulary. As a result, an unnecessary anticancer drug was prescribed to the patient.

Rey points for safe use

- Be aware that drugs have brand names and nonproprietary names and that mix-ups have occurred due to confusion between various combinations (similar nonproprietary names, nonproprietary names and brand names, and similar brand names).
- Confirm whether the search method of your institution's system is a partial match or a forward match.



Examples of Similar Nonproprietary Names and Brand Names

Upper row: Nonproprietary name (brand name) Lower row: Brand name (original drug) (nonproprietary name)	Therapeutic category, etc.	
Candesartan cilexetil (BLOPRESS)	Long-acting angiotensin II receptor antagonist	
Cardenalin (doxazosin mesilate)	α1-blocking antihypertensive agent	
Sodium ferrous citrate (Ferromia)	Soluble non-ionic iron preparation	
QUENMET (a combination drug of potassium citrate/sodium citrate hydrate)	Alkalizing agent for improvement of aciduria and acidosis	
Glibenclamide (EUGLUCON)	Hypoglycemic agent	
Glivec (imatinib mesilate)	Antineoplastic agent (tyrosine kinase inhibitor)	
Spironolactone (Aldactone-A)	Anti-aldosterone diuretic/antihypertensive agent	
Spiropent (clenbuterol hydrochloride)	Long-acting bronchodilator/therapeutic drug for stress urinary incontinence	
Torasemide (LUPRAC)	Loop diuretic	
Trazenta (Linagliptin)	Biliary excretory selective DPP-4 inhibitor	
Tranexamic acid (TRANSAMIN)	Anti-plasmin drug	
Trandate (Labetalol hydrochloride)	αβ-blocking antihypertensive agent	
Bicalutamide (Casodex)	Therapeutic drug for prostate cancer	
Caltan (precipitated calcium carbonate)	Therapeutic drug for hyperphosphataemia	
Flunitrazepam (Silece)	Therapeutic drug for insomnia	
FLUITRAN (trichlormethiazide)	Thiazide antihypertensive diuretic	
Betahistine mesylate (Merislon)	Therapeutic drug for dizziness and balance disorder	
Bestatin (Ubenimex)	Antineoplastic agent	
Betahistine mesylate (Merislon)	Therapeutic drug for dizziness and balance disorder	
Betaselemin (betamethasone/d-chlorpheniramine maleate combination product)	Corticosteroid/antihistamine combination product	
METHOTREXATE (Methotrexate)	Folic acid antimetabolite	
Methotrexate (Methotrexate, a generic product of RHEUMATREX) The information in the tables on this page and the post page is current as of MM.	Antirheumatic	

The information in the tables on this page and the next page is current as of MM 202X.For more details, please check the latest package insert for each product available from the link on the right or the QR code on the right.

https://www.pmda.go.jp/PmdaSearch/iyakuSearch/





2 Drugs with Similar Brand Names

- A 28-day prescription for a patient with no history of a present illness of diabetes mellitus had a description of 1 "ACTOS Tablet (a drug for type 2 diabetes mellitus)" upon awakening for 4 days. Based on the dosage and administration and the number of days of prescription, someone suspected this description as a prescription error for Actonel Tablets (a drug for osteoporosis) and asked a prescription question to the prescribing doctor; then it turned out that the prescription was not for Actos tablets, but for "Actonel tablets," which was an error.
- (Case 3) A woman in her 20s was prescribed "Betanis tablets (a drug for overactive bladder)." Someone noticed that "1. Warnings" on the package insert stated that administration to patients of reproductive age should be avoided and questioned the prescribing physician about the discrepancy. It was then found that Betanis tablets had been confused with "Beova tablets," a drug with the same indication.

Relation Note: Key points for safe use

- Be aware that some drugs have similar brand names, and be sure to check each drug name.
- Share information and raise awareness about examples of drugs with similar names in the table below and those handled in your institution.

Examples of Similar Brand Names (No. 1)

	- 1	
Brand name (nonproprietary name)	Therapeutic category, etc	
ACTOS (pioglitazone hydrochloride)	Insulin resistance improving agent (therapeutic drug for type 2 diabetes mellitus) Therapeutic drug for osteoporosis and therapeutic drug	
Actonel (sodium risedronate hydrate)	for Paget's disease of the bone (17.5 mg only)	
Astomin (dimemorfan phosphate)	Antitussive	
Fareston (toremifene citrate preparation)	Therapeutic drug for breast cancer	
INVEGA (paliperidone)	Antipsychotic	
Intuniv (guanfacine hydrochloride)	Therapeutic drug for attention deficit hyperactivity disorder	
ECARD combination tablets LD/HD (candesartan cilexetil/hydrochlorothiazide)	Long-acting angiotensin II receptor antagonist/diuretic combination product	
EquMet combination tablets LD/HD (vildagliptin/metformin hydrochloride)	Selective DPP-4 inhibitor/biguanide combination product	
GLACTIV (sitagliptin phosphate hydrate)	Selective DPP-4 inhibitor	
Gramalil (tiapride hydrochloride)	Tiapride preparation (idiopathic dyskinesia, Parkinsonism, etc.)	
GLYCYRON (combination tablet of monoammonium glycyrrhizinate, glycine, and DL-methionine)	Drug for liver diseases/allergies	
GLIMICRON (gliclazide)	Sulfonylurea hypoglycemic agent	
THIURAGYL (propylthiouracil)	Therapeutic drug for hyperthyroidism	
THYRADIN-S (levothyroxine sodium hydrate)	Thyroid hormone preparation	
DESALEX (desloratadine)	Long-acting selective H1 receptor antagonist/therapeutic drug for allergic disease	
DEBERZA (tofogliflozin hydrate)	Selective SGLT2 inhibitor	
Trazenta (linagliptin)	Selective DPP-4 inhibitor	
TRANSAMIN (tranexamic acid)	Anti-plasmin drug	
Plavix (clopidogrel sulfate)	Antiplatelet agent	
Lasvic (lascufloxacin hydrochloride)	New quinolone antimicrobial	
Beova (vibegron) Although the therapeutic category, etc., of both drugs are the same, their precautions, such as "1.	Selective β3-adrenergic receptor agonist for the treatment of overactive bladder	
Betanis (mirabegron) Warning" and "2. Contraindications" are different!	Selective β3-adrenergic receptor agonist for the treatment of overactive bladder	
BETANAMIN (pemoline)	Psychotropic	
Betanis (mirabegron)	Selective β3-adrenergic receptor agonist for the treatment of overactive bladder	

Examples of Similar Brand Names (No. 2)

Brand name (nonproprietary name)	Therapeutic category, etc.
Phosribbon combination granules (sodium dihydrogen phosphate monohydrate/disodium hydrogen phosphate anhydrous)	Therapeutic drug for hypophosphataemia
Fosrenol granules sachets (lanthanum carbonate hydrate)	Therapeutic drug for hyperphosphataemia
REXULITI (brexpiprazole)	Antipsychotic
Lexotan (bromazepam)	Psychotropic
RESPLEN (eprazinone hydrochloride)	Antitussive/airway mucolytic
RESLIN (trazodone hydrochloride)	Therapeutic drug for depression/depressive states
ROCORNAL (trapidil)	Circulatory function improving agent
LOCHOL (fluvastatin sodium)	HMG-CoA reductase inhibitor



In addition to the above, notices from pharmaceutical companies are posted on the website of the Pharmaceuticals and Medical Devices Agency (PMDA).

https://www.pmda.go.jp/safety/info-services/medical-safety-info/0178.html

Please take a look at the points to check carefully, preventive measures using the prescription ordering system, etc. posted on the website.

Naming Rules for the Brand Names of Drugs

[PMSB Notification No. 935 dated September 19, 2000]

https://www.pmda.go.jp/files/000144004.pdf

Brand name of original drug: (Brand name) + "dosage form" + "content (or concentration)"

Brand name: Name given by the pharmaceutical company

It is stipulated that there must be no other products with similar names, even if a brand name is partially omitted.

[PFSB/ELD Notification No. 0922001 dated September 22, 2005]

https://www.pmda.go.jp/files/000250556.pdf

Brand name of generic drug: (Nonproprietary name) + "dosage form" + "content (or concentration)" + "trade name, etc."

Nonproprietary name (nonproprietary name):

Name of active ingredient, name of ingredient

Note that there are exceptions, such as combination products.

Products with similar chemical structures are likely to have similar names!

<Reference: Examples of Clever Brand Names>

Since there are 2 existing original drugs, this example includes an identification code to avoid mistakes when prescribing, etc.!

Zonisamide tablets 100 mg EX "KO"

• Zonisamide OD tablets 25 mg TRE "SMPP" and Zonisamide OD tablets 50 mg TRE "SMPP"

EX : EXCEGRAN (therapeutic category: antiepileptic drug)

TRE : TRERIEF OD (therapeutic category: therapeutic drug for Parkinson's disease, etc.)

About this information

- * PMDA Medical Safety Information is issued by the Pharmaceuticals and Medical Devices Agency for the purpose of providing healthcare providers with clearer information from the perspective of promoting the safe use of pharmaceuticals and medical devices. The information presented here has been compiled, with the assistance of expert advice, from cases collected as Medical Accident Information Reports by the Japan Council for Quality Health Care, and collected as Adverse Drug Reaction and Malfunction Reports in accordance with the Law on Securing Quality, Efficacy and Safety of Pharmaceuticals and Medical Devices.
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- * This English version is intended to be a reference material to provide convenience for users. In the event of inconsistency between the Japanese original and this English translation, the former shall prevail

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