

Overview of FDA Resources

Heena Patel, PharmD

Center for Drug Evaluation and Research | Food and Drug Administration
Division of Drug Information | Office of Communications

Disclaimer



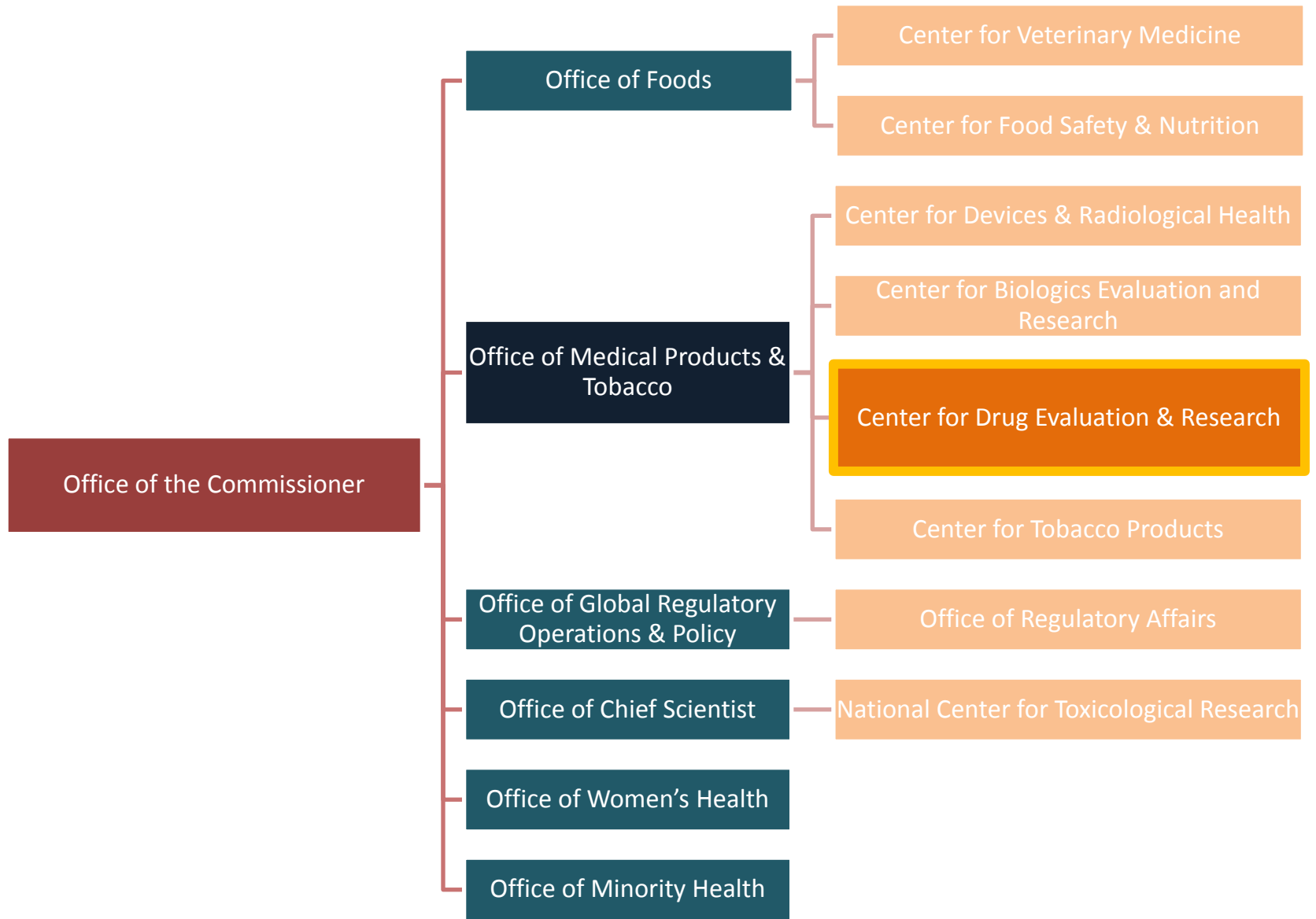
The views and opinions expressed in the following PowerPoint slides are those of the individual presenter and should not be construed to represent FDA's view or policies.

Objectives



1. Identify FDA resources that contain information on drug safety issues
2. Locate adverse event reporting information on FDA's website
3. Utilize drug information resources to stay informed on FDA actions, decisions and initiatives

U.S. Food and Drug Administration



FDA: What We Do



- Mission: Promote and protect public health
- FDA's primary responsibility is to protect the American people from unsafe or mislabeled food, drugs, and other medical products and to make sure consumers have access to accurate, science-based information about the products they need and rely on every day
- FDA/CDER (Center for Drug Evaluation and Research) ensures that safe, effective and high quality drugs are available for U.S. consumers

Division of Drug Information (DDI)



- DDI is CDER's focal point for public inquiries regarding human drug products
- The mission of DDI is to optimize CDER's educational and communication efforts to our global community
- We support the FDA's mission to promote and protect public health

Objectives



- 1. Identify FDA resources that contain information on drug safety issues**
2. Locate adverse event reporting information on FDA's website
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FDA Databases/Resources



- Drugs@FDA
- National Drug Code (NDC) Directory
- Orange Book
- Purple Book
- Drug Safety Labeling Changes (SLC) Database
- Drug Shortages
- Approved Risk Evaluation and Mitigation Strategies (REMS)
- Drug Safety Communications
- MedWatch

CDER Home Page: Where to Find Resources



U.S. Department of Health and Human Services

FDA U.S. FOOD & DRUG ADMINISTRATION

A to Z Index | Follow FDA | En Español

Search FDA

Home | Food | **Drugs** | Medical Devices | Radiation-Emitting Products | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Tobacco Products

Drugs

Home > Drugs

CDER Small Business and Industry Assistance (SBIA)

CDER SBIA REdI Conference
PRESCRIPTION DRUG LABELING CONFERENCE 2017
NOVEMBER 1&2

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10000 New Hampshire Ave
Silver Spring, MD 20903

Join us for our REdI Prescription Drug Labeling Conference 2017
FDA and Industry labeling specialists present their unique perspectives

Spotlight

- Find Information about a Drug
- Search Drugs@FDA
- Orange Book Search
- National Drug Code Directory
- Drug Shortages

Recalls & Alerts

- Drug Recalls
- MedWatch: The FDA Safety Information and Adverse Event Reporting Program
- Recalls, Market Withdrawals, & Safety Alerts

Navigate the Drugs Section

1 2 3 4

9

Drugs


[Home](#) > [Drugs](#)

CDER Small Business and Industry Assistance (SBIA)



CDER SBIA REdi Conference

PRESCRIPTION DRUG LABELING CONFERENCE 2017

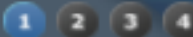
NOVEMBER 1&2

TOMMY DOUGLAS CONFERENCE CENTER

10000 New Hampshire Ave
Silver Spring, MD 20903

Join us for our REdi Prescription Drug Labeling Conference 2017

FDA and Industry labeling specialists present their unique perspectives



Spotlight

- [Find Information about a Drug](#)
- [Search Drugs@FDA](#)
- [Orange Book Search](#)
- [National Drug Code Directory](#)
- [Drug Shortages](#)

Recalls & Alerts

- [Drug Recalls](#)
- [MedWatch: The FDA Safety Information and Adverse Event Reporting Program](#)
- [Recalls, Market Withdrawals, & Safety Alerts](#)

Navigate the Drugs Section

Emergency Preparedness

Bioterrorism, drug preparedness and natural disaster response

Drug Approvals and Databases

CDER highlights key Web sites. Web page provides quick links to everything from acronyms to wholesale distributor and third-party logistics providers reporting.

Drug Safety and Availability

Medication Guides, Drug Shortages, Drug Safety Communications and Other Safety Announcements

Development & Approval Process (Drugs)

Get to know FDA's drug development and approval process -- ensuring that drugs work and that the benefits outweigh their known risks.

Guidance, Compliance & Regulatory Information

Looking for FDA Guidance, Compliance, & Regulatory Information? Web page provides quick links to a variety of topics.

News & Events

What's New on This Site, Drug Approval Listing, Meetings and Conferences

Science & Research (Drugs)

Research by FDA Staff to Evaluate and Enhance the Safety of Drug Products

Resources for You

For Consumers, Health Professionals, Industry

Approvals & Clearances

- [This Week's Drug Approvals](#)
- [Drug and Biologic Approval and IND Activity Reports](#)
- [Search Drug Approval Reports by Month Using Drugs@FDA](#)

Stay Informed

- [What's New Related to Drugs](#)
- [Tools To Keep You Informed](#)

Navigate the Drugs Section

Emergency Preparedness

Bioterrorism, drug preparedness and natural disaster response

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Science & Research (Drugs)

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Resources for You

For Consumers, Health Professionals, Industry

Resources for You

- Find Information about a Drug
- Consumers
- Healthcare Professionals
- Industry
- About the Center for Drug Evaluation and Research
- Quick Tips for Buying Medicines Over the Internet
- CDERLearn
- Report a Problem to the FDA

News and Announcements

- Expanded Access: FDA Describes Efforts to Ease Application Process
- Reducing the Hurdles for Complex Generic Drug Development
- FDA Takes Important Steps to Stem the Tide of Opioid Misuse and Abuse

[More News and Announcements](#)

Drug Safety

- Buying & Using Medicine Safely
- Drug Safety Communications
- Index to Drug-Specific Information
- Medication Guides
- Medication Health Fraud
- Postmarket Drug Safety Information for Patients and Providers

Important Information

- Recalls, Market Withdrawals, & Safety Alerts

Approvals & Clearances

- This Week's Drug Approvals
- Drug and Biologic Approval and IND Activity Reports
- Search Drug Approval Reports by Month Using Drugs@FDA

Stay Informed

- What's New Related to Drugs
- Tools To Keep You Informed
- Meetings, Conferences, and Workshops
- FDA's Drug Related Performance Measures

Contact FDA

Toll Free
(855) 543-3784, or
(301) 796-3400
druginfo@fda.hhs.gov

Human Drug Information

Division of Drug Information (CDER)
Office of Communications
Feedback Form
10001 New Hampshire Avenue
Hillandale Building, 4th Floor
Silver Spring, MD 20993



Drugs @FDA



- Home
- Food
- Drugs
- Medical Devices
- Radiation-Emitting Products
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- Animal & Veterinary
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- Tobacco Products

Home > Drug Databases > Drugs@FDA

Drugs@FDA: FDA Approved Drug Products

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Search by Drug Name, Active Ingredient, or Application Number

Search by Drug Name

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9

Drug Approval Reports by Month 



Drugs@FDA: FDA Approved Drug Products

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Search Results for "LAMOTRIGINE"

[Products listed on this page may not be equivalent to one another.](#)

LAMICTAL
LAMICTAL CD
LAMICTAL ODT
LAMICTAL XR
LAMOTRIGINE



Drugs@FDA: FDA Approved Drug Products

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New Drug Application (NDA): 020241
Company: GLAXOSMITHKLINE LLC

[EMAIL](#)

- [Medication Guide](#)

Products on NDA 020241 ^

[CSV](#) [Excel](#) [Print](#)

Drug Name	Active Ingredients	Strength	Dosage Form/Route	Marketing Status	TE Code	RLD	RS
LAMICTAL	LAMOTRIGINE	100MG	TABLET;ORAL	Prescription	AB	Yes	No
LAMICTAL	LAMOTRIGINE	150MG	TABLET;ORAL	Prescription	AB	Yes	No
LAMICTAL	LAMOTRIGINE	200MG	TABLET;ORAL	Prescription	AB	Yes	No
LAMICTAL	LAMOTRIGINE	250MG **Federal Register determination that product was not discontinued or withdrawn for safety or efficacy reasons**	TABLET;ORAL	Discontinued	None	Yes	No
LAMICTAL	LAMOTRIGINE	25MG	TABLET;ORAL	Prescription	AB	Yes	Yes
LAMICTAL	LAMOTRIGINE	50MG **Federal Register determination that product was not discontinued or withdrawn for safety or efficacy reasons**	TABLET;ORAL	Discontinued	None	Yes	No

Showing 1 to 6 of 6 entries

Approval Date(s) and History, Letters, Labels, Reviews for NDA 020241 v

Labels for NDA 020241 v

Therapeutic Equivalents for NDA 020241 v

Drugs@FDA: FDA Approved Drug Products



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New Drug Application (NDA): 020241
Company: GLAXOSMITHKLINE LLC

[EMAIL](#)

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Products on NDA 020241

Approval Date(s) and History, Letters, Labels, Reviews for NDA 020241

Original Approvals or Tentative Approvals

[CSV](#) [Excel](#) [Print](#)

Action Date	Submission	Action Type	Submission Classification	Review Priority; Orphan Status	Letters, Reviews, Labels, Patient Package Insert	Notes
12/27/1994	ORIG-1	Approval	Type 1 - New Molecular Entity	PRIORITY		Label is not available on this site.

Showing 1 to 1 of 1 entries

Supplements

[CSV](#) [Excel](#) [Print](#)

Action Date	Submission	Supplement Categories or Approval Type	Letters, Reviews, Labels, Patient Package Insert	Note
05/18/2015	SUPPL-53	Efficacy-New Patient Population	Label (PDF) Letter (PDF)	
03/24/2015	SUPPL-51	Labeling-Medication Guide	Label (PDF) Letter (PDF)	
03/24/2015	SUPPL-45	Labeling	Label (PDF) Letter (PDF)	
12/30/2014	SUPPL-40	Labeling-Patient Package Insert	Label (PDF) Letter (PDF)	

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New Drug Application (NDA): 020241
Company: GLAXOSMITHKLINE LLC

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Products on NDA 020241

Approval Date(s) and History, Letters, Labels, Reviews for NDA 020241

04/04/2003	SUPPL-18	Labeling	Letter (PDF)	Label is not available on this site.
01/17/2003	SUPPL-8	Efficacy-New Indication	Label (PDF)	
05/25/2001	SUPPL-11	Efficacy-Labeling Change With Clinical Data	Label (PDF) Review (PDF)	
02/23/2001	SUPPL-15	Labeling		Label is not available on this site.
09/08/2000	SUPPL-14	Labeling		Label is not available on this site.
06/12/2000	SUPPL-12	Manufacturing (CMC)		Label is not available on this site.
06/03/1999	SUPPL-9	Manufacturing (CMC)		Label is not available on this site.
05/10/1999	SUPPL-7	Manufacturing (CMC)		Label is not available on this site.
12/14/1998	SUPPL-3	Efficacy-New Indication	Label (PDF) Letter (PDF) Review	
08/24/1998	SUPPL-2	Efficacy-New Indication	Label (PDF) Letter (PDF) Review	
03/16/1998	SUPPL-6	Labeling		Label is not available on this site.
03/16/1998	SUPPL-5	Manufacturing (CMC)-Control		Label is not available on this site.
03/11/1997	SUPPL-4	Labeling		Label is not available on this site.

Drug Approval Package

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Lamictal Chewable Dispersible Tablets (Lamotrigine)
Company: Glaxo Wellcome, Inc.
Application No.: 020-764 & 020-241/S002
Approval Date: 8/24/1998

- [Approval Letter & Printed Labeling \(PDF\) \(3.6 MB\)](#)
- [Medical Review\(s\) \(PDF\)](#)
 - Part 1 (2 MB)
 - Part 2 (2 MB)
 - Part 3 (2.8 MB)
 - Part 4 (2.8 MB)
- [Chemistry Review\(s\) \(PDF\) \(762 KB\)](#)
- [Pharmacology Review\(s\) & Statistical Review\(s\) \(PDF\) \(2.3 MB\)](#)
- [Clinical Pharmacology Biopharmaceutics Review\(s\) \(PDF\)](#)
 - Part 1 (3 MB)
 - Part 2 (2.2 MB)
 - Part 3 (2 MB)
 - Part 4 (1 MB)
- [Administrative Document\(s\)/Correspondence \(PDF\)](#)
 - Part 1 (3 MB)
 - Part 2 (2.2 MB)
 - Part 3 (2 MB)
 - Part 4 (1 MB)

Date created: March 30, 2001; last updated: July 1, 2005

[Back to Top](#) [Drugs@FDA](#)



National Drug Code (NDC) Directory



- Home
- Food
- Drugs
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- Vaccines, Blood & Biologics
- Animal & Veterinary
- Cosmetics
- Tobacco Products

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National Drug Code Directory

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The National Drug Code (NDC) Directory is updated daily.
Current through: September 17, 2017

***Required Field**

Search the database

Choose a Search Type*:

Nonproprietary Name

Search by Non Proprietary Name*:

lamotrigine |

(Type in part or all of Non Proprietary Name)

SEARCH

CLEAR

[Background Information](#)

Drug questions email: DRUGINFO@FDA.HHS.GOV

See also: [Drug Registration and Listing Instructions](#)
[National Drug Code Directory Data Files](#)

National Drug Code Directory



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Current through September 17, 2017

Records marked with (E): This information was removed from publication, because FDA has found inaccuracy in the data submitted by the firm. Data will be released for publication once complete and accurate information is submitted to FDA

Only the first 500 results are displayed. Consider refining your search by entering more specific terms.

Search Results: Nonproprietary Name

[Back to Search Page](#) | [Search Again](#)

Display records per page

Search for text in the table:

Proprietary Name	NDC Package Code	Strength	Dosage Form	Route	Appl. No.	Labeler Name	Product NDC	Nonproprietary Name	Substance Name	Product Type Name	Start Marketing Date	End Marketing Date	Market Category	Package Description	Pharm Class	DEA
LAMICTAL	0173-0526-00	5 mg/1	TABLET, CHEWABLE	ORAL	NDA020764	GlaxoSmithKline LLC	0173-0526	lamotrigine	LAMOTRIGINE	HUMAN PRESCRIPTION DRUG	09-04-1998	N/A	NDA	100 TABLET, CHEWABLE in 1 BOTTLE (0173-0526-00)	Anti-epileptic Agent [EPC], Decreased Central Nervous System Disorganized Electrical Activity [PE], Mood Stabilizer [EPC]	N/A
LAMICTAL	0173-0527-00	25 mg/1	TABLET, CHEWABLE	ORAL	NDA020764	GlaxoSmithKline LLC	0173-0527	lamotrigine	LAMOTRIGINE	HUMAN PRESCRIPTION DRUG	09-03-1998	N/A	NDA	100 TABLET, CHEWABLE in 1 BOTTLE (0173-0527-00)	Anti-epileptic Agent [EPC], Decreased Central Nervous System Disorganized Electrical Activity [PE], Mood Stabilizer [EPC]	N/A
LAMICTAL	0173-0594-02		KIT		NDA020241	GlaxoSmithKline LLC	0173-0594	lamotrigine		HUMAN PRESCRIPTION DRUG	09-29-2003	N/A	NDA	1 BLISTER PACK in 1 PACKAGE, COMBINATION (0173-0594-02) > 1 KIT in 1 BLISTER PACK	N/A	N/A
LAMICTAL	0173-0633-02	25 mg/1	TABLET	ORAL	NDA020241	GlaxoSmithKline LLC	0173-0633	lamotrigine	LAMOTRIGINE	HUMAN PRESCRIPTION DRUG	08-15-1996	N/A	NDA	100 TABLET in 1 BOTTLE (0173-0633-02)	Anti-epileptic Agent [EPC], Decreased Central Nervous System Disorganized Electrical Activity [PE], Mood Stabilizer [EPC]	N/A
LAMICTAL	0173-0633-10	25 mg/1	TABLET	ORAL	NDA020241	GlaxoSmithKline LLC	0173-0633	lamotrigine	LAMOTRIGINE	HUMAN PRESCRIPTION DRUG	08-15-1996	N/A	NDA	35 TABLET in 1 DOSE PACK (0173-0633-10)	Anti-epileptic Agent [EPC], Decreased Central Nervous System Disorganized Electrical Activity [PE], Mood Stabilizer [EPC]	N/A



Drugs

[Home](#) > [Drugs](#) > [Drug Approvals and Databases](#)

Drug Approvals and Databases

Approved Drugs



National Drug Code Directory

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The Drug Listing Act of 1972 requires registered drug establishments to provide the Food and Drug Administration (FDA) with a current list of all drugs manufactured, prepared, propagated, compounded, or processed by it for commercial distribution. (See Section 510 of the Federal Food, Drug, and Cosmetic Act (Act) (21 U.S.C. § 360)). Drug products are identified and reported using a unique, three-segment number, called the National Drug Code (NDC), which serves as a universal product identifier for drugs. FDA publishes the listed NDC numbers and the information submitted as part of the listing information in the NDC Directory which is updated daily.

The information submitted as part of the listing process, the NDC number, and the NDC Directory are used in the implementation and enforcement of the Act.

Download the New *NDC Express* Mobile Application!



Searching the NDC Directory is now faster and easier with our new mobile app!

Download *NDC Express*





Orange Book

Orange Book: Approved Drug Products with Therapeutic Equivalence Evaluations

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[Additional information and resources for the Orange Book](#)

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Download Orange Book Express 2.0



Find Approved Drugs

Search by Proprietary Name, Active Ingredient or Application Number

Entecavir Search

Search by Applicant (Company)

Search by Dosage Form (for example: TABLET)

Search by Route of Administration (for example: ORAL)

Find Patent Information

Search by Patent Number

View Newly Added Patents or Delisted Patents

Orange Book: Approved Drug Products with Therapeutic Equivalence Evaluations

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Search Results for Proprietary Name, Active Ingredient or Application Number: *Entecavir*

21 records returned

RX
 OTC
 DISCN

Display records per page

Search for text in the table:

Mkt. Status	Active Ingredient	Proprietary Name	Appl No	Dosage Form	Route	Strength	TE Code	RLD	RS	Applicant Holder
RX	ENTECAVIR	BARACLUDE	N021798	SOLUTION	ORAL	0.05MG/ML		RLD	RS	BRISTOL MYERS SQUIBB
RX	ENTECAVIR	BARACLUDE	N021797	TABLET	ORAL	0.5MG	AB	RLD		BRISTOL MYERS SQUIBB
RX	ENTECAVIR	BARACLUDE	N021797	TABLET	ORAL	1MG	AB	RLD	RS	BRISTOL MYERS SQUIBB
RX	ENTECAVIR	ENTECAVIR	A205824	TABLET	ORAL	0.5MG	AB			ACCORD HEALTHCARE INC
RX	ENTECAVIR	ENTECAVIR	A206652	TABLET	ORAL	0.5MG	AB			AMNEAL PHARMACEUTICALS
RX	ENTECAVIR	ENTECAVIR	A206217	TABLET	ORAL	0.5MG	AB			AUROBINDO PHARMA LTD
RX	ENTECAVIR	ENTECAVIR	A206872	TABLET	ORAL	0.5MG	AB			CIPLA LTD
RX	ENTECAVIR	ENTECAVIR	A205740	TABLET	ORAL	0.5MG	AB			HETERO LABS LTD UNIT V
RX	ENTECAVIR	ENTECAVIR	A206294	TABLET	ORAL	0.5MG	AB			PAR PHARMACEUTICAL INC
RX	ENTECAVIR	ENTECAVIR	A206672	TABLET	ORAL	0.5MG	AB			SANDOZ INC
RX	ENTECAVIR	ENTECAVIR	A202122	TABLET	ORAL	0.5MG	AB			TEVA PHARMACEUTICALS USA
RX	ENTECAVIR	ENTECAVIR	A206745	TABLET	ORAL	0.5MG	AB			ZYDUS PHARMACEUTICALS USA INC

- Home
- Food
- Drugs
- Medical Devices
- Radiation-Emitting Products
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- Animal & Veterinary
- Cosmetics
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Home > Drug Databases > Orange Book Home

Orange Book: Approved Drug Products with Therapeutic Equivalence Evaluations

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Find Approved Drugs

▼ Search by Proprietary Name, Active Ingredient or Application Number

Xiidra

Search

▶ Search by Applicant (Company)

▶ Search by Dosage Form (for example: *TABLET*)

▶ Search by Route of Administration (for example: *ORAL*)

Find Patent Information

▶ Search by Patent Number

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Search Results for Proprietary Name, Active Ingredient or Application Number: *Xiidra*

1 record returned

RX OTC DISCN

CSV

Excel

Display records per page

Search for text in the table:

Mkt. Status	Active Ingredient	Proprietary Name	Appl No	Dosage Form	Route	Strength	TE Code	RLD	RS	Applicant Holder
RX	LIFITEGRAST	XIIDRA	N208073	SOLUTION/DROPS	OPHTHALMIC	5%		RLD	RS	SHIRE DEVELOPMENT LLC
Mkt. Status	Active Ingredient	Proprietary Name	Appl No	Dosage Form	Route	Strength	TE Code	RLD	RS	Applicant Holder

Showing 1 to 1 of 1 entries

Previous

1

Next

XIIDRA (LIFITEGRAST)

5%

Marketing Status: Prescription

Active Ingredient: LIFITEGRAST

Proprietary Name: XIIDRA

Dosage Form; Route of Administration: SOLUTION/DROPS; OPHTHALMIC

Strength: 5%

Reference Listed Drug: Yes

Reference Standard: Yes

TE Code:

Application Number: N208073

Product Number: 001

Approval Date: Jul 11, 2016

Applicant Holder Full Name: SHIRE DEVELOPMENT LLC

Marketing Status: Prescription

[Patent and Exclusivity Information](#)



Patent and Exclusivity for: N208073

Product 001
LIFITEGRAST (XIIDRA) SOLUTION/DROPS 5%

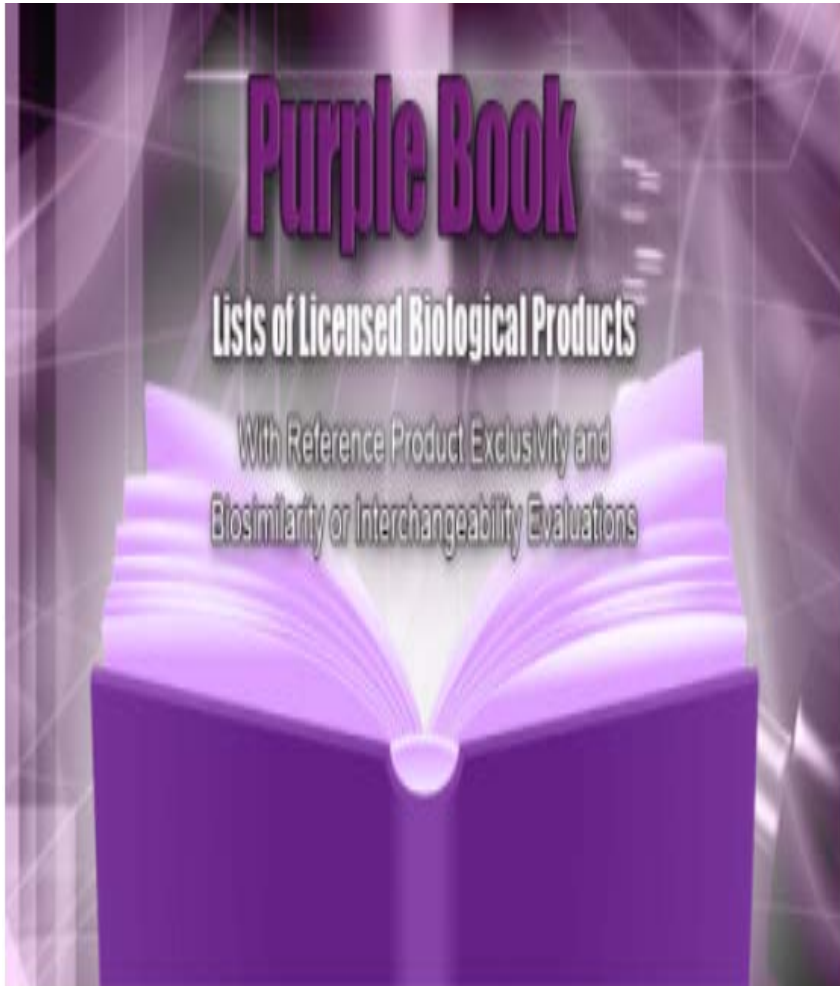
Patent Data

Product No	Patent No	Patent Expiration	Drug Substance Claim	Drug Product Claim	Patent Use Code	Delist Requested
001	7314938	Mar 10, 2025	DS	DP		
001	7745460	Nov 5, 2024	DS	DP	U-1880	
001	7790743	Nov 5, 2024			U-1880	
001	7928122	Nov 5, 2024	DS	DP		
001	8084047	May 17, 2026	DS	DP		
001	8168655	May 9, 2029			U-1880	
001	8367701	Apr 15, 2029		DP	U-1880	
001	8592450	May 17, 2026			U-1880	
001	8927574	Nov 12, 2030		DP		
001	9085553	Jul 25, 2033		DP		
001	9216174	Nov 5, 2024		DP		
001	9353088	Oct 21, 2030		DP		
001	9447077	Apr 15, 2029			U-1900	

Exclusivity Data

Product No	Exclusivity Code	Exclusivity Expiration
001	NCE	Jul 11, 2021

Biosimilars



The Purple Book includes :

- A list of biological products, including any biosimilar and interchangeable biological products
- The date a biological product was licensed and whether FDA evaluated the biological product for reference product exclusivity
- Indicates whether a biological product has been determined by the FDA to be biosimilar to or interchangeable with a reference biological product
- Biosimilar and interchangeable biological products licensed will be listed under the reference product to which biosimilarity or interchangeability was demonstrated
- Separate lists for those biological products regulated by the Center for Drug Evaluation and Research (CDER) and the Center for Biologics Evaluation and Research (CBER)

Purple Book



Center for Drug Evaluation and Research

List of Licensed Biological Products with (1) Reference Product Exclusivity and (2) Biosimilarity or Interchangeability Evaluations to Date

BLA STN	PRODUCT (PROPER) NAME	PROPRIETARY NAME	DATE OF LICENSURE (mo/day/yr)	DATE OF FIRST LICENSURE (mo/day/yr)	REFERENCE PRODUCT EXCLUSIVITY EXPIRY DATE (mo/day/yr)	INTERCHANGEABLE (I)/ BIOSIMILAR (B)	WITHDRAWN
125118	abatacept	Orencia	12/23/05				
103575	abciximab	ReoPro	12/22/94	NA	NA		
125274	abobotulinumtoxinA	Dysport	04/29/09				
125057	adalimumab	Humira	12/31/02	NA	NA		
761058	adalimumab-adbm	Cyltezo	08/25/17			B	
761024	adalimumab-atto	Amjevita	09/23/16			B	
125427	ado-trastuzumab emtansine	Kadcyla	02/22/13				

Drug Shortages



Drug Shortages



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Search the [Drug Shortages Database](#)

Upgraded Drug Shortages app for Android devices adds alert feature

The Food and Drug Administration released Drug Shortages 2 mobile application for Android devices. Android device users are able to receive notifications when there is new or updated information about a shortage of a drug product or about a drug within selected therapeutic categories.

Designed for Android devices, Drug Shortages 2 sends alerts when the Agency adds or updates shortage information about a drug product or about a drug within selected therapeutic categories. We are currently working on notifications for the iOS version of the Drug Shortage mobile app, which will be available soon.

[Download the Drug Shortages 2 app for Android devices](#)

Download the Drug Shortages Mobile Application



FDA Drug Shortages

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Current and Resolved Drug Shortages and Discontinuations Reported to FDA

[Report a Drug Shortage](#) | [Contact Us](#) | [FAQ](#) | [Background Info](#) | [Get Email Alerts](#) | [RSS Feed](#)

Search by Generic Name or Active Ingredient:

Current/Resolved Shortages

Discontinuations

Therapeutic Categories

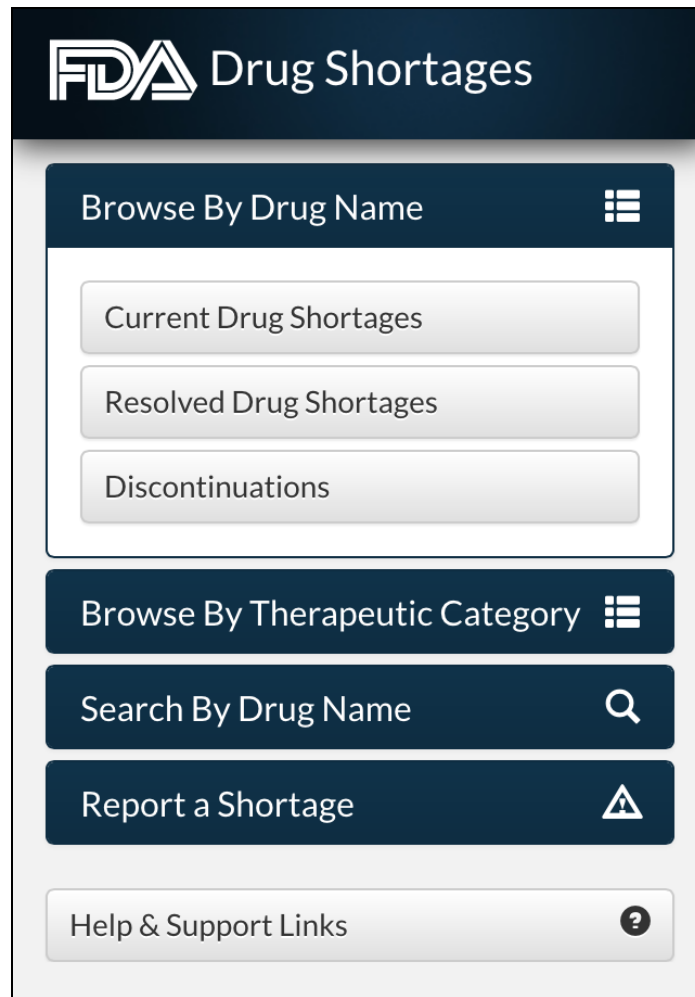
New and Updated

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

A drug receives Resolved status when the Drug Shortages Staff (DSS) determines that the market is covered, based on information from all manufacturers. The market is considered covered when supply is available from at least one manufacturer to cover total market demand. However, some manufacturers may not have all presentations available. DSS monitors the supply of products with Resolved status. For the most current supply information, contact the manufacturers.

Generic Name or Active Ingredient	Status
Acetohydroxamic Acid (Lithostat) Tablets	Resolved
Albuterol Sulfate Inhalation Solution (0.5%)	Resolved
Alitretinoin (Panretin) Gel	Resolved
Asparaginase Erwinia Chrysanthemi (Erwinaze)	Currently in Shortage
Atenolol Tablets	Currently in Shortage

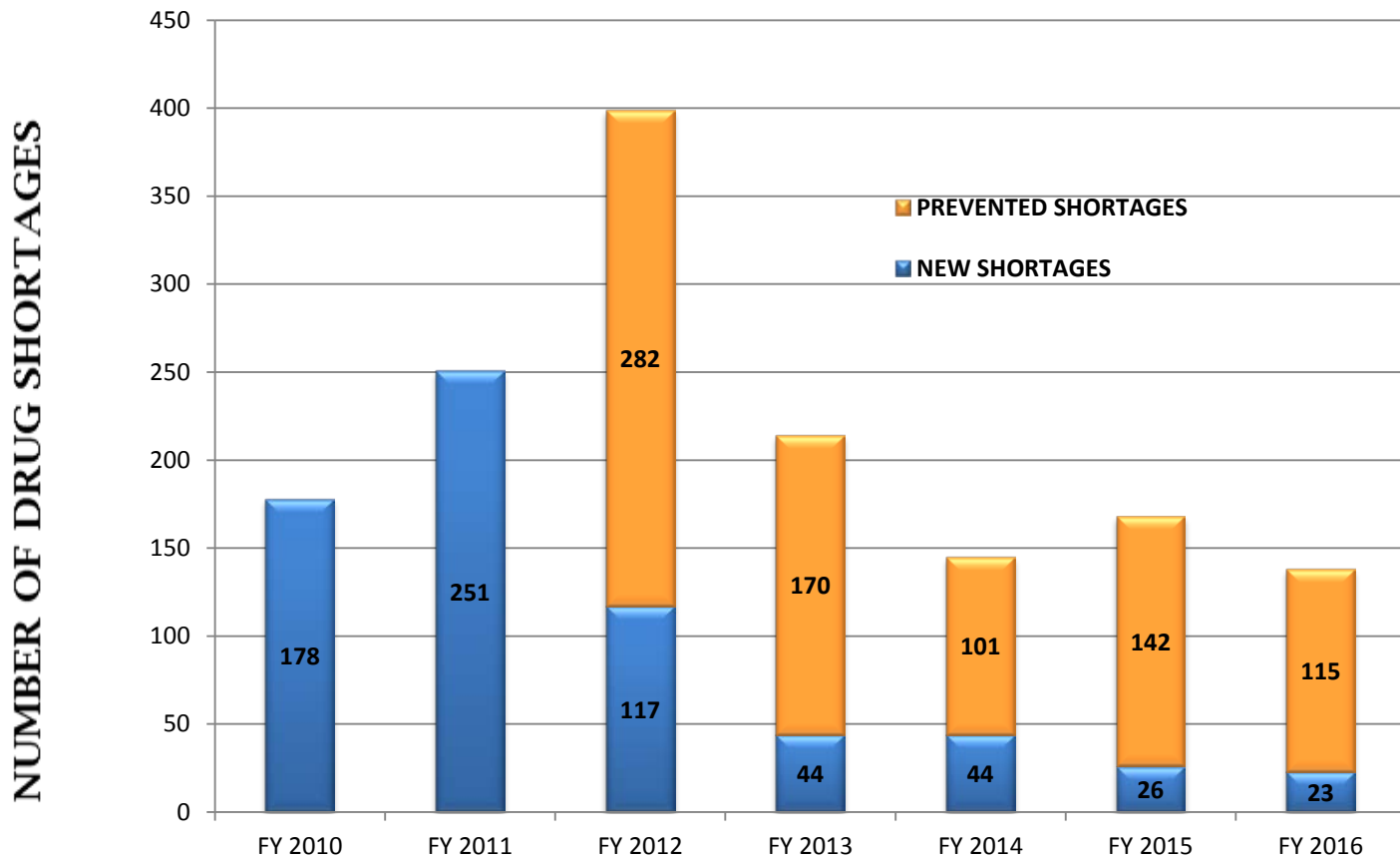
Drug Shortages Mobile App



Drug Shortage Data



Drug Shortages: New vs. Prevented



Responding to Drug Shortages

- Regulatory Discretion
 - Allows for manufacture of medically necessary products to continue
 - May require additional safety controls
 - Filters with product; extra testing at plant; 3rd party oversight of production; special instructions for safe use
- Request other firms to raise production
- Expedite reviews
 - New manufacturing sites, longer expiry date, new raw material source, changes in specifications, etc.
- In rare cases, temporary importation from unapproved sources

Drug Shortages

Drug Shortages: Additional News and Information

Frequently Asked Questions about Drug Shortages

Extended Use Dates Provided by Pfizer to Assist with Emergency Syringe Shortages

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UPDATE [8/17/17] Due to the ongoing critical shortages of injectable drugs used in critical care, please see additional products with extended use dates and corresponding lot numbers in the tables below. To help ensure patient safety, these products should have been — and should continue to be — stored as per labeled conditions. As data become available, this list can continue to expand.

For more information, see the [CDER Statement](#). Please contact CDER Drug Shortage Staff at drugshortages@fda.hhs.gov with questions regarding these tables.

Product and lot numbers of Sodium Bicarbonate products in glass fliptop vials eligible for use beyond the manufacturer’s labeled expiration date (as of August 17, 2017).

- **Sodium Bicarbonate Injection, USP 8.4% (1 mEq/mL); 50 mEq/50 mL Single Dose Glass Fliptop Vial (NDC 0409-6625-25) LABELLED AS NOVAPLUS**

Product/ Lot Number	Manufacturer’s Original Expiry Date	New Use Date (beyond manufacturer’s original expiry date)
57254EV00	9/1/2017	2/1/2018
57496EV00	9/1/2017	2/1/2018
60043EV00	12/1/2017	5/1/2018
60122EV00	12/1/2017	5/1/2018



Drug Recalls



Recalls



U.S. Food and Drug Administration
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- Home
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- Medical Devices
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- Animal & Veterinary
- Cosmetics
- Tobacco Products

Safety

Home > Safety > Recalls, Market Withdrawals, & Safety Alerts

Recalls, Market Withdrawals, & Safety Alerts

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The list below provides information gathered from press releases and other public notices about certain recalls of FDA-regulated products. Not all recalls have press releases or are posted on this page. See [Additional information about recalls](#) for a more complete listing.

For recall notices older than 60 days, see the [Recall and Safety Alerts Archive](#).

[Sign up to receive Recalls, Market Withdrawals and Safety Alerts.](#)

Filter by Keyword(s):

Filter by Recall Type:

All



Clear Filter

Date	Brand Name	Product Description	Reason/ Problem	Company
04/06/2016	Granna's	French Toast with diced potatoes and mandarin oranges	Undeclared Milk	Granna's LLC

Spotlight

- Undeclared Peanut (from Cumin Ingredient) Recalls
- Enforcement Reports
- Recalls of Raw (Fresh and Fresh Frozen) oysters, clams, mussels, and whole and roe-on scallops

Industry Resources

- Guidance for Industry: Product Recalls, Including Removals and Corrections
- Industry Guidance: Information on Recalls of FDA Regulated Products
- ORA District and Headquarters Recall Coordinators
- Industry Notices and Guidance Documents

Enforcement Reports



U.S. Food and Drug Administration
Protecting and Promoting *Your Health*

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Safety

[Home](#) > [Safety](#) > [Recalls, Market Withdrawals, & Safety Alerts](#) > [Enforcement Reports](#)

Enforcement Reports

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[Archived Enforcement Reports](#)

Enforcement Reports



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All recalls monitored by FDA are included in the Enforcement Report once they are classified. Information about how to navigate the report and for definitions of the report labels are found on the [Enforcement Report Navigation and Definitions](#) page.

For information gathered from press releases and other public notices about certain recalls of FDA-regulated products you can visit [Recalls, Market Withdrawals, & Safety Alerts](#).

FDA is conducting two pilot programs to expedite notifications of Non-Blood (HCT/P, Vaccine, Derivative, etc.) and human drug product recalls to the public which can be found in the below links:

- [Human Drug Product Recalls Pending Classification](#) (also available by selecting "Pending Recalls")
- [Non-Blood Product On-Going Recalls](#)

To subscribe to the enforcement report mailing list please follow this link: [Enforcement Report email subscription](#).

Please e-mail enforcementreports@fda.hhs.gov with any comments.

Enforcement Reports



Enforcement Report - Week of September 13, 2017

View by Product | [View by Event](#)

[Export to CSV](#) [Print View](#)

Showing 1 to 7 of 7 records (filtered from 50 total records)

< < 1 > >

Records per page: 50

For a more detailed search, go to [Advanced Search](#)

Product Type

Drugs

Classification

Recalling Firm

Clear Filter

- All recalls go into **FDA's Enforcement Report** once they are classified according to the level of hazard involved

Product Type	Product Description	Classification	Code Information	Reason for Recall	Recalling Firm
 + view details	Drugs Curcumin Emulsion 10mg/ml Injection, Sterile 10 mL Multiple Dose Vial, For Slow IV Administration, Compounded for a licensed professional or patient use by ImprimisRx, Irvine, CA	Class II	03212017@21B Exp:6/19/2017; 03232017@19B Exp:6/21/2017; 03292017@27B Exp:6/27/2017; 03292017@9B Exp:6/27/2017; 04042017@21B Exp:7/3/2017; 04122017@22B Exp:7/11/2017; 04132017@14B Exp:7/12/2017; 04192017@37B Exp:7/18/2017; 04192017@17B Exp:7/18/2017; 04242017@18B Exp:7/23/2017	Incorrect/Undeclared Excipient; non-pharmaceutical grade PEG 40 Castor Oil was used due to a mislabeling by the supplier	ImprimisRx CA, Inc., dba ImprimisRx 9257 Research Dr Irvine, CA 92618-4286
 + view details	Drugs Latanoprost PF Solution, 0.005%, Ophthalmic Drops in Sterile 5ml Bottles, Compounded for a licensed professional or patient use, imprimisRx, Irvine, CA	Class II	0404017@32B, 10/01/2017	Incorrect/Undeclared Excipient; non-pharmaceutical grade PEG 40 Castor Oil was used due to a mislabeling by the supplier	ImprimisRx CA, Inc., dba ImprimisRx 9257 Research Dr Irvine, CA 92618-4286
 + view details	Drugs Timolol-Latanoprost PF Solution (0.5-0.005)%, Ophthalmic Drops, Sterile 5ml Bottle, Compounded for a	Class II	04042017@34B, 10/01/2017	Incorrect/Undeclared Excipient; non-pharmaceutical grade PEG	ImprimisRx CA, Inc., dba ImprimisRx 9257 Research Dr

Compounding

[Regulatory Policy Information](#)▶ [Compounding Risk Alerts](#)[Compounding: Inspections, Recalls, and other Actions](#)[Outsourcing Facilities](#)

Compounding Risk Alerts

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Compounding Risk **ALERT**

The information provided on this webpage is intended to alert health care professionals of adverse event reports related to compounded drugs. Providing this information to health care professionals should further FDA's goal of protecting patients from unsafe, ineffective, and poor quality compounded drugs.

Please contact compounding@fda.hhs.gov if you have any questions regarding the information provided in a compounding risk alert below:

- [A Case of Hemorrhagic Occlusive Retinal Vasculitis \(HORV\) Following Intraocular Injections of a Compounded Triamcinolone, Moxifloxacin, and Vancomycin Formulation](#)
- [FDA alerts health care professionals of adverse events associated with Guardian's compounded triamcinolone and moxifloxacin product for intravitreal injection](#)
- [FDA investigates two serious adverse events associated with ImprimisRx's compounded curcumin emulsion product for injection](#)

FDA encourages health care professionals to report adverse events and product quality defects associated with compounded drugs to FDA's MedWatch Adverse Event Reporting program:

- Complete and submit the report online at www.fda.gov/medwatch/report.htm; or
- Download and complete the form, then submit it via fax at 1-800-FDA-0178.

Objectives



1. Identify FDA resources that contain information on drug safety issues
- 2. Locate adverse event reporting information on FDA's website**
3. Utilize drug information resources to stay informed on FDA actions, decisions and initiatives

MedWatch



A screenshot of the MedWatch website homepage. The header includes the FDA logo, the text "U.S. Food and Drug Administration Protecting and Promoting Your Health", and a search bar. Below the header is a navigation menu with links for Home, Food, Drugs, Medical Devices, Radiation-Emitting Products, Vaccines, Blood & Biologics, Animal & Veterinary, Cosmetics, and Tobacco Products. The main content area is titled "Safety" and "MedWatch: The FDA Safety Information and Adverse Event Reporting Program". It features a search bar for the MedWatch section, social media sharing options (Share, Tweet, LinkedIn, Pin It, Email, Print), and a "Resources for You" section with links to safety alerts, reporting information, and MedWatchLearn. At the bottom, there are three prominent buttons: "Report a Problem" (red), "Safety Information" (blue), and "Stay Informed" (green).

Report:

- Adverse events
- Product problems
- Product use errors

Forms:

Voluntary

- Form FDA 3500
- Form FDA 3500B

Mandatory

- Form FDA 3500A

Search FDA

- [Home](#)
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- [Medical Devices](#)
- [Radiation-Emitting Products](#)
- [Vaccines, Blood & Biologics](#)
- [Animal & Veterinary](#)
- [Cosmetics](#)
- [Tobacco Products](#)

Drugs



Home > Drugs

DRUG SAFETY COMMUNICATION

Potassium-lowering drugs can bind to oral Rx, OTC drugs
Separate time between doses to avoid drug-drug interactions

1 2 3 4

Spotlight

- [Find Information about a Drug](#)
- [Search Drugs@FDA](#)
- [Orange Book Search](#)
- [National Drug Code Directory](#)
- [Drug Shortages](#)

Recalls & Alerts

- [Drug Recalls](#)
- [MedWatch: The FDA Safety Information and Adverse Event Reporting Program](#)
- [Recalls, Market Withdrawals, & Safety Alerts](#) 49

Navigate the Drugs Section



Safety

[Home](#) > [Safety](#) > [MedWatch The FDA Safety Information and Adverse Event Reporting Program](#)

MedWatch The FDA Safety Information and Adverse Event Reporting Program

Subscribe to MedWatch Safety Alerts

Safety Information



Reporting Serious Problems to FDA



Resources for You

- [2017 Safety Alerts for Human Medical Products](#)
- [MedWatchLearn - Teaching students, health professionals, and consumers how to report problems to FDA](#)
- [Medical Product Safety Educational Resources](#)
- [Consumer-Friendly Reporting Form 3500B \(PDF - 1.3MB\)](#)

MedWatch: The FDA Safety Information and Adverse Event Reporting Program

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Search the MedWatch Section



Your FDA gateway for clinically important safety information and reporting serious problems with human medical products.

[Report a Problem](#)

[Safety Information](#)

[Stay Informed](#)

What's New

- [Baby Organic Liquid Formula by Garden of Life: Recall - Directions For Use May Be Misinterpreted If not administered precisely following the labeled instructions, the product may present difficulties in swallowing and potentially pose a choking hazard due to the thickness of the liquid.](#) Posted 09/08/2017

MedWatch Online Voluntary Reporting Form

Welcome

[Frequently Asked Questions](#)

Begin report as a:

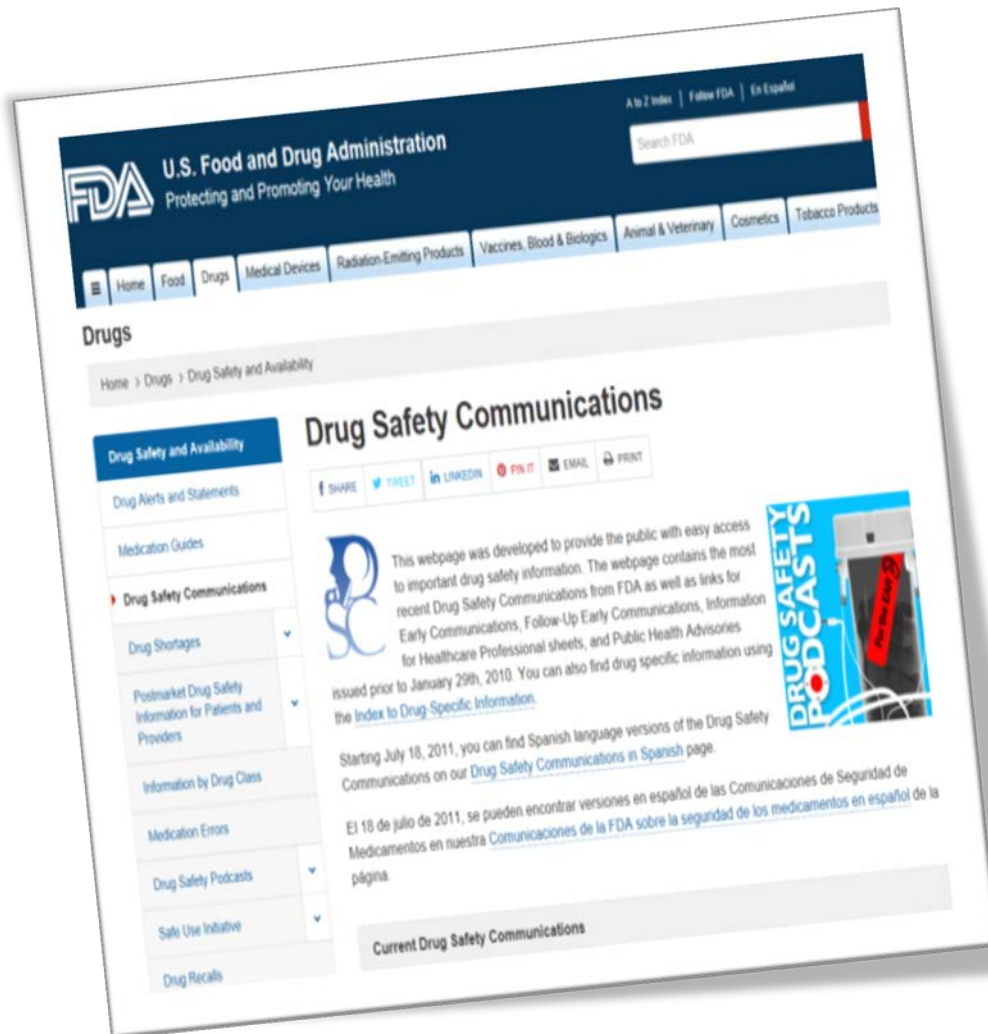


Health Professional
(FDA Form 3500)



Consumer/Patient
(FDA Form 3500B)

Drug Safety Communications (DSC)



CDER's primary tool for communicating important new and emerging safety information to the public

- New drug warnings
- Drug label changes
- Other safety information

Drug Safety Communications



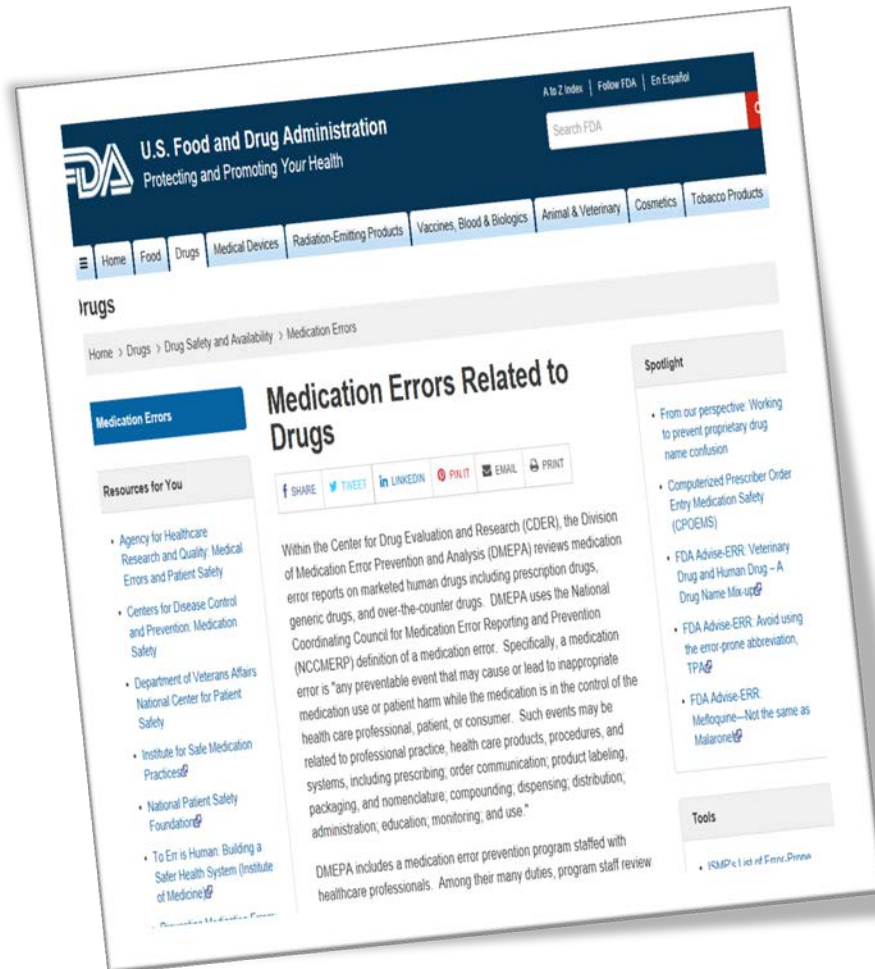
September 2017: FDA warns about serious liver injury with Ocaliva (obeticholic acid) for rare chronic liver disease

September 2017: FDA urges caution about withholding opioid addiction medications from patients taking benzodiazepines or CNS depressants: careful medication management can reduce risks

September 2017: FDA recommends separating dosing of potassium-lowering drug sodium polystyrene sulfonate (Kayexalate) from all other oral drugs

May 2017: FDA identifies no harmful effects to date with brain retention of gadolinium-based contrast agents for MRIs; review to continue

Medication Errors



Division of Medication Error Prevention and Analysis (DMEPA) reviews:

- Medication error reports on marketed human drugs including prescription drugs, generic drugs, and OTC drugs
- MedWatch Reports
- Proprietary names, labeling, packaging, and product design prior to drug approval to help prevent medication errors

Medication Errors

Resources for You

- [Agency for Healthcare Research and Quality: Medical Errors and Patient Safety](#)
- [Centers for Disease Control and Prevention: Medication Safety](#)
- [Department of Veterans Affairs National Center for Patient Safety](#)
- [Institute for Safe Medication Practices](#)
- [National Patient Safety Foundation](#)
- [To Err is Human: Building a Safer Health System \(Institute of Medicine\)](#)
- [Preventing Medication Errors: Quality Chasm Series](#)
- [National Coordinating Council for Medication Error Reporting and Prevention](#)

Medication Errors Related to Drugs



Within the Center for Drug Evaluation and Research (CDER), the Division of Medication Error Prevention and Analysis (DMEPA) reviews medication error reports on marketed human drugs including prescription drugs, generic drugs, and over-the-counter drugs. DMEPA uses the National Coordinating Council for Medication Error Reporting and Prevention (NCCMERP) definition of a medication error. Specifically, a medication error is "any preventable event that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the health care professional, patient, or consumer. Such events may be related to professional practice, health care products, procedures, and systems, including prescribing; order communication; product labeling, packaging, and nomenclature; compounding; dispensing; distribution; administration; education; monitoring; and use."

DMEPA includes a medication error prevention program staffed with healthcare professionals. Among their many duties, program staff review medication error reports sent to MedWatch, evaluate causality, and analyze the data to provide solutions to reduce the risk of medication errors to industry and others at FDA.

Additionally, DMEPA prospectively reviews proprietary names, labeling, packaging, and product design prior to drug approval to help prevent medication errors.

Although DMEPA encourages manufacturers to perform their due diligence when naming their drug products and we strive to avoid approving confusing proprietary names for drug products, there are cases of adverse

Spotlight

- [MedWatch Online Voluntary Reporting Form](#)
- [Guidance for Industry: Safety Considerations for Product Design to Minimize Medication Errors Guidance for Industry \(PDF - 212KB\)](#)
- [From our perspective: Working to prevent proprietary drug name confusion](#)
- [Computerized Prescriber Order Entry Medication Safety \(CPOEMS\)](#)
- [Update on Phonetic and Orthographic Computer Analysis Tool](#)

Tools

- [ISMP's List of Error-Prone Abbreviations, Symbols, and Dose Designations](#)
- [ISMP's List of Products with Drug Name Suffixes](#)
- [FDA Drug Info Rounds Video: Medication Errors](#)
- [Over-the-Counter \(OTC\) Dosage Delivery Devices](#)
- [Avoiding Medication Mistakes](#)

Objectives



1. Identify FDA resources that contain information on drug safety issues
2. Locate adverse event reporting information on FDA's website
3. **Utilize drug information resources to stay informed on FDA actions, decisions and initiatives**

Labeling Initiatives



Approved Risk Evaluation and Mitigation Strategies (REMS)



Name	Last Updated	Medication Guide*	Communication Plan
Adasuve (loxapine), aerosol, powder NDA #22549	12/09/2013		
Addyi (flibanserin), tablet NDA #022526	08/18/2015		
Adempas (riociguat), tablet, film coated NDA #204819	12/04/2015		
Afrezza (insulin human), powder, metered NDA #022472	04/20/2015		
Alosetron (alosetron), tablet ANDA #200652	01/07/2016		
Androgel 1% (testosterone), gel NDA #21015	05/11/2015		
Androgel 1.62% (testosterone), gel NDA #22309	05/11/2015		
Aranesp (darbepoetin alfa), solution BLA #103951	12/31/2013		
Aveed (testosterone undecanoate), injection NDA #022219	03/05/2014		
Axiron (testosterone), solution NDA #22504	05/11/2015		
Blincyto (blinatumomab), kit BLA #125557	12/03/2014		
Buprenorphine Transmucosal Products for Opioid Dependence (BTOD) Shared System REMS	08/10/2015		
Caprelsa (vandetanib), tablet NDA #22405	11/27/2013		
Chantix (varenicline), kit NDA #21928	10/15/2014		
Clozapine Shared System REMS	09/15/2015		

Approved Risk Evaluation and Mitigation Strategies (REMS)



Get email alerts when the site changes

Download historic REMS data in CSV format

Search by REMS, drug name, and element

Sort to find the most recently updated REMS

[Contact Us](#) | [REMS Basics](#) | [Get Email Alerts](#) | [Data Files](#)

The Food and Drug Administration Amendments Act of 2007 gave FDA the authority to require a Risk Evaluation and Mitigation Strategy (REMS) for certain manufacturers to ensure that the benefits of a drug or biological product outweigh its risks.

The table below provides links to currently approved individual and shared system REMS.

Information on historical and released REMS: [downloadable data files](#).

Filter by Keyword (e.g. REMS name, active ingredient, element):


Name ↕	Last Updated ↕	Medication Guide*	Communication Plan	ETASU	Implementation System
Actemra (<i>tocilizumab</i>), injection, solution; injection, solution, concentrate BLA #125276 BLA #125472	10/21/2013		✓		
Adasuve (<i>loxapine</i>), aerosol, powder NDA #22549	12/09/2013		✓		
Addyi (<i>flibanserin</i>), tablet NDA #022526	08/18/2015				

Click for more detailed info on each REMS

REMS: Information for Participants

What do participants need to know?

Below is a general overview of the REMS for all REMS participants (e.g., patients, pharmacies, and healthcare providers). See the product-specific REMS website or the approved REMS materials for more information.

[View application holder\(s\) REMS Website](#) 

Go to application holder's REMS website

+ Healthcare Providers who prescribe isotretinoin products must

+ Patients who are prescribed isotretinoin products

+ Pharmacies that dispense isotretinoin products must

View requirements for each participant

REMS: Information for HCPs



+ Healthcare Providers who prescribe isotretinoin products must

+ Patients who are prescribed isotretinoin products

- Pharmacies that dispense isotretinoin products must

Find out what you have to do, and when

To be able to dispense

- Designate an authorized representative to carry out the certification process on behalf of the pharmacy.
- Have the authorized representative enroll in the REMS by completing the Pharmacy Enrollment Form and submitting it to the REMS Program.

Before dispensing

- Provide the patient with the Medication Guide.
- Obtain authorization to dispense by contacting the iPLEDGE Program via web or voice-based system. Document the Risk Management Authorization (RMA) number on the prescription.
- Dispense prior to the “do not dispense to a patient after” date provided by the iPLEDGE Program.
- Dispense no more than a 30 days’ supply.
- Do not dispense refills.

Every year

- Re-enroll in the iPLEDGE Program.

At all times

- Return unused product to the manufacturer.
- Do not distribute, transfer, loan, or sell product.

Medication Guides



The screenshot shows the FDA website's "Medication Guides" page. At the top, there is the FDA logo and the text "U.S. Food and Drug Administration Protecting and Promoting Your Health". A search bar is located on the right. Below the navigation menu, the "Drugs" section is highlighted. The main content area is titled "Medication Guides" and includes social media sharing options (SHARE, TWEET, LINKEDIN, PIN IT, EMAIL, PRINT). A blue box contains the text: "Drugs@FDA and DailyMed also contain medication guides as part of drug labeling." Below this, there is a checkbox for "Get email alerts when the Medication Guides page is updated." The main text explains that Medication Guides are paper handouts for prescription medicines, providing FDA-approved information to help patients avoid serious adverse events. It lists three reasons why FDA requires these guides: to prevent serious adverse effects, to inform patients of known serious side effects, and to ensure adherence to directions for use. A "Please note" section at the bottom states that all links in the table below go to documents in PDF format.

- Prevent serious adverse effects
- Assist with informed patient decision making
- Information for patient adherence to directions for use of a product

Drug Safety Labeling Changes (SLC)

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[Sign up for SLC Alerts](#) | [Quick Reference](#)

The Drug Safety Labeling Changes (SLC) database provides approved safety labeling changes from January 2016 forward. Data prior to January 2016 will continue to be available on the [MedWatch website](#).

Additional information and resources for [drug safety labeling](#).

There are two ways to search: a [Drug Name Search](#) and a [Date Search](#).

Drug Name Search

Drug Name or Active Ingredient:

[Search](#) [Reset](#)

OR

Date Search

For Safety Labeling Changes before January 1, 2016 see the [MedWatch Safety Labeling Page](#)

Date Range:

Labeling Section:

- Boxed Warning
- Contraindications
- PCI/PI/MG (Patient Counseling Information/Patient Information/Medication Guide)
- Adverse Reactions
- Warnings and Precautions
- Drug Interactions
- Use in Specific Populations

[Search](#) [Reset](#)

- Provides approved safety labeling changes from January 2016 forward
- Data prior to January 2016 will continue to be available on the MedWatch website

SLC Database Search

How to Search Within Results / Choose Result

Search within multiple results, filter results, sort by column, or select drug name.

Filter results:

Drug Name	Active Ingredient	Application Number	Supplement Date	Database Updated
DRUG PRODUCT	DRUG PRODUCT	000000	01/15/2016	08/22/2016
DRUG PRODUCT	DRUG PRODUCT	000000	01/15/2016	05/08/2016
DRUG PRODUCT	DRUG PRODUCT	000000	01/15/2016	05/08/2016
DRUG PRODUCT #2	DRUG PROD #2	000000	01/15/2016	07/11/2016

How to Download Data Files

Search results can be downloaded and saved in CSV format.

Drug Safety Labeling Changes (SLC)

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[PIN IT](#)
[EMAIL](#)
[PRINT](#)

[Sign up for SLC Alerts](#) | [Quick Reference](#)

[SLC Home](#)

DRUG PRODUCT (#000000)

(GENERIC NAME)

Safety Labeling Changes Approved By FDA Center for Drug Evaluation and Research (CDER)

[Download Data](#)

01/15/2016 (SUPPL-40)

[Approved Drug Label \(PDF\)](#)

Boxed Warnings

WARNINGS: DRUG PRODUCT CAN INCREASE THE RISK OF CARDIOVASCULAR EVENTS

Contraindications

Concurrent use of DRUG PRODUCT with other nephrotoxic drugs should be avoided

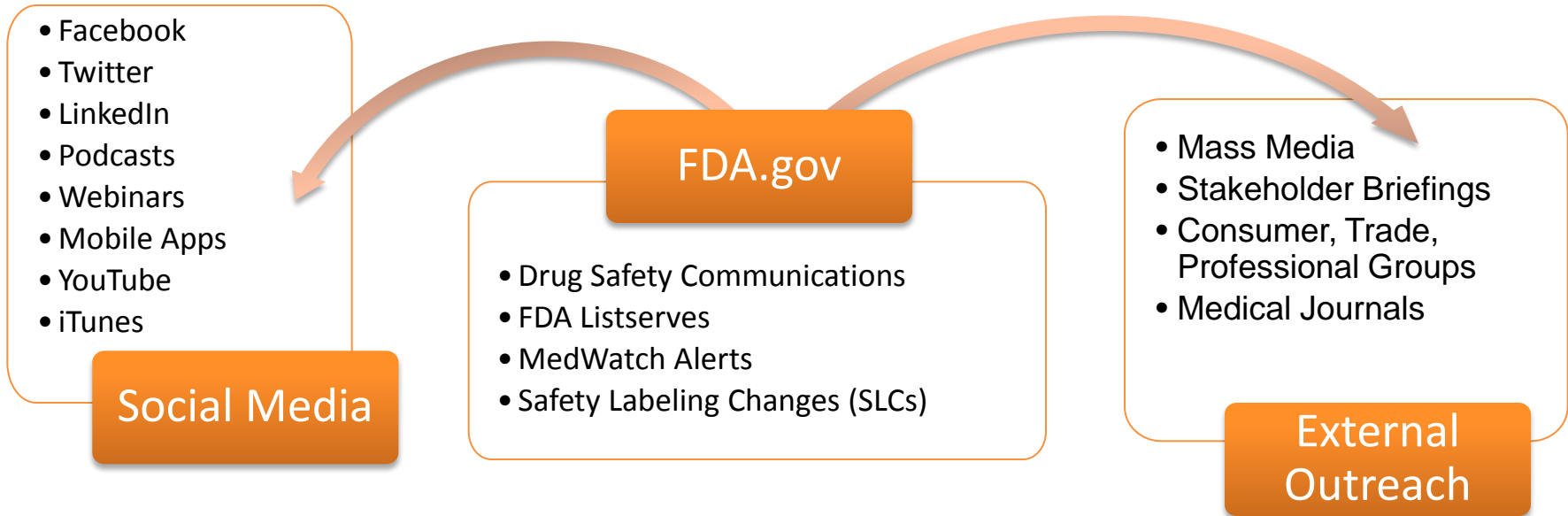
Warnings and Precautions

Hepatic impairment can potentiate the response to DRUG PRODUCT and decrease its metabolism. Use DRUG PRODUCT with caution in these patients

Adverse Reactions

DRUG PRODUCT can cause nausea, vomiting and/or gastrointestinal distress

Stay Informed



“Webinars”



twitter



Listserve

“MedGuides”



PRESS

Stay Informed



- **Links to social media, webinars, and much more!**

www.fda.gov/AboutDDI

- **Sign up for email updates:**
www.fda.gov/aboutfda/contactfda/stayinformed/getemailupdates/default.htm
- **Pharmacy Student Experiential Program:**
www.fda.gov/PharmStudentProgram
- **Regulatory Pharmacist Fellowship Program:**
www.fda.gov/RegPharmFellowship
- **Global Alliance of Drug Information Specialists (GADIS)**
www.fda.gov/GADIS

Thank you



QUESTIONS?

Contact DDI:

Phone: 855-543-3784 or 301-796-3400

Email: druginfo@fda.hhs.gov