



**March 2017**  
Drug Information Update

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## NEWLY AVAILABLE GENERICS

GENERIC DRUG NAME	STRENGTH & DOSAGE FORM	GENERIC MANUFACTURER	BRAND NAME
PREDNISOLONE SOD PHOSPHATE	20 mg/5 mL (4 mg/mL) SOLUTION	EDENBRIDGE PHAR	VERIPRED 20
PREDNISOLONE SOD PHOSPHATE	10 mg/5 mL SOLUTION	EDENBRIDGE PHAR	MILLIPRED
FLURANDRENOLIDE	0.05% OINT. (G)	TELIGENT PHARMA	CORDRAN
METHYLPHENIDATE HCL	60 mg CAPSULE	MAYNE PHARMA IN	METHYLPHENIDATE LA
DESVENLAFAXINE SUCCINATE	25mg, 50mg, 100mg TAB	TEVA	PRISTIQ
NORETHINDRONE-E.ESTRADIOL-IRON	1 mg-20 mcg (24)/75 mg (4)	LUPIN	MIBELAS 24 FE
NORETHINDRONE-E.ESTRADIOL-IRON	1 mg-20 mcg (24)/75 mg (4)	ACTAVIS	MINASTRIN 24 FE

## NEW DRUG ENTITIES/COMBINATIONS/STRENGTHS

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
IRON REPLACEMENT	TRIFERIC	FERRIC PYROPHOSPHATE CITRATE	272 mg iron POWD PACK	New Strength and Dosage Form
IBS-C/CIC AGENTS, GUANYLATE CYCLASE-C AGONIST	TRULANCE	PLECANATIDE	3 mg	New Entity
ANALGESICS, NARCOTICS	DILAUDID	HYDROMORPHONE HCL/PF	0.5 mg/0.5 mL IV	New Strength
GLUCOCORTICOIDS	EMFLAZA	DEFLAZACORT	6 mg TAB	New Entity
GLUCOCORTICOIDS	EMFLAZA	DEFLAZACORT	18 mg TAB	New Entity
GLUCOCORTICOIDS	EMFLAZA	DEFLAZACORT	30 mg TAB	New Entity
GLUCOCORTICOIDS	EMFLAZA	DEFLAZACORT	36 mg TAB	New Entity
GLUCOCORTICOIDS	EMFLAZA	DEFLAZACORT	22.75 mg/mL SUSP.	New Entity
CEPHALOSPORINS - 1ST GENERATION	DAXBIA	CEPHALEXIN	333 mg CAP	New Strength
ANTIHISTAMINES - 1ST GENERATION	RYVENT	CARBINOXAMINE MALEATE	6 mg TAB	New Strength
ANTIDIARRHEAL - TRYPTOPHAN HYDROXYLASE INHIBITOR	XERMELO	TELOTRISTAT ETIPRATE	250 mg TAB	New Entity
GLUCOCORTICOIDS	ZONACORT	DEXAMETHASONE	1.5 mg (27 tabs)	New Dosage Form
GLUCOCORTICOIDS	ZONACORT	DEXAMETHASONE	1.5 mg (41 tabs)	New Dosage Form
ANALGESICS, NARCOTICS	ARYMO ER	MORPHINE SULFATE	15 mg TAB	New Dosage Form
ANALGESICS, NARCOTICS	ARYMO ER	MORPHINE SULFATE	30 mg TAB	New Dosage Form

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
ANALGESICS, NARCOTICS	ARYMO ER	MORPHINE SULFATE	60 mg TAB	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	10 mg CAP	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	20 mg CAP	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	30 mg CAP	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	40 mg CAP	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	50 mg CAP	New Dosage Form
ADRENERGICS, AROMATIC, NON-CATECHOLAMINE	VYVANSE	LISDEXAMFETAMINE DIMESYLATE	60 mg CAP	New Dosage Form
ROSACEA AGENTS, TOPICAL	RHOFADE	OXYMETAZOLINE HCL	1 % cream	New Strength, Route and Dosage Form
ANTIHEMOPHILIC FACTORS	ELOCTATE	ANTIHEMOPH.FVIII REC,FC FUSION	4,000 unit	New Strength
ANTIHEMOPHILIC FACTORS	ELOCTATE	ANTIHEMOPH.FVIII REC,FC FUSION	5,000 unit	New Strength
ANTIHEMOPHILIC FACTORS	ELOCTATE	ANTIHEMOPH.FVIII REC,FC FUSION	6,000 unit	New Strength
ANTI-INFLAMMATORY, INTERLEUKIN-1 BETA BLOCKERS	ILARIS	CANAKINUMAB/PF	150 mg/mL SUBCUT	New Strength
INFLUENZA VIRUS VACCINES	FLULAVAL QUAD 2016-2017	FLU VACC QS2016-17(6MOS UP)/PF	60 mcg (15 mcg x 4)/0.5 mL IM	New Entity
ANTINEOPLASTIC SYSTEMIC ENZYME INHIBITORS	KISQALI	RIBOCICLIB SUCCINATE	600 mg/day (200 mg x 3)	New Entity, Protected Class
ANTINEOPLASTIC SYSTEMIC	KISQALI	RIBOCICLIB SUCCINATE	400 mg/day	New Entity,

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
ENZYME INHIBITORS			(200 mg x 2)	Protected Class
ANTINEOPLASTIC SYSTEMIC ENZYME INHIBITORS	KISQALI	RIBOCICLIB SUCCINATE	200 mg/day (200 mg x 1)	New Entity, Protected Class

## NEW INDICATIONS (EXISTING DRUGS)

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### Revlimid®

February 22, 2017

Celgene Corporation today announced that the U.S. Food and Drug Administration (FDA) has expanded the existing indication for Revlimid® (lenalidomide) 10 mg capsules to include use for patients with multiple myeloma as maintenance therapy following autologous hematopoietic stem cell transplant (auto-HSCT). The expanded indication makes Revlimid the first and only treatment to receive FDA approval for maintenance use following auto-HSCT. The approval was based on two large studies including more than 1,000 patients comparing Revlimid® maintenance therapy given until disease progression or unacceptable toxicity after auto-HSCT versus no maintenance. In both studies, the primary efficacy endpoint was progression-free survival (PFS) defined from randomization to the date of progression or death, whichever occurred first. In the most current PFS analysis, Study 1 demonstrated a median PFS of 5.7 years (95% CI: 4.4-not estimable) versus 1.9 years (95% CI: 1.6-2.5) for no maintenance, a difference of 3.8 years (HR 0.38 [95% CI: 0.28-0.50]). Study also showed a benefit with a median PFS of 3.9 years (95% CI: 3.3-4.7) versus 2 years (95% CI: 1.8-2.3) for no maintenance, a difference of 1.9 years (HR 0.53 [95% CI: 0.44-0.64]).

Source: Celgene Corporation

<http://ir.celgene.com/releasedetail.cfm?ReleaseID=1014013>

## FDA NEWS/BULLETINS/ADVISORIES/SAFETY ALERTS

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### Viberzi (eluxadoline): Drug Safety Communication - Increased Risk of Serious Pancreatitis In Patients Without A Gallbladder

[Posted 3/15/2017]

**ISSUE:** FDA is warning that Viberzi (eluxadoline), a medicine used to treat irritable bowel syndrome with diarrhea (IBS-D), should not be used in patients who do not have a gallbladder. An FDA review found these patients have an increased risk of developing serious pancreatitis that could result in hospitalization or death. Pancreatitis may be caused by spasm of a certain digestive system muscle in the small intestine. As a result, FDA is working with the Viberzi manufacturer, Allergan, to address these safety concerns.

**BACKGROUND:** Viberzi is a prescription medicine used to treat irritable bowel syndrome in adults when the main symptom is diarrhea (IBS-D). IBS-D affects the large intestine and causes cramping, stomach-area or abdomen pain, bloating, gas, and diarrhea. The cause of IBS-D is not known. Viberzi works by decreasing bowel contractions, which leads to less diarrhea. In patients with IBS-D, Viberzi can help ease stomach-area or abdomen pain and improve stool consistency.

**RECOMMENDATION:** Health care professionals should not prescribe Viberzi in patients who do not have a gallbladder and should consider alternative treatment options in these patients. Hospitalizations and deaths due to pancreatitis have been reported with Viberzi use in patients who do not have a gallbladder. Symptoms of pancreatitis have occurred with just one or two doses of Viberzi at the recommended dosage for patients who do not have a gallbladder (75 mg), and who do not consume alcohol.



## STUDIES and RECENT TOPICS

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### [The rate of uninsured Americans hits a record low as Obamacare's future remains a question mark](#)

**February 14, 2017**

As fewer Americans lack health insurance, more are squawking about potentially losing it. A new survey shows that the nation's rate of people without health insurance fell further —yet again — to new lows in 2016, giving Obamacare supporters more ammunition in their ongoing fight to retain the health-care law.

Source: cnbc.com

### [Doctors May Be Able to Predict Autism Risk Much Earlier](#)

**February 15, 2017**

About one in 68 children born in the U.S. are diagnosed with autism spectrum disorder, the developmental disorder that affects a number of brain functions—most notably children's ability to socialize and communicate. Because the first signs of autism aren't obvious until children start talking and interacting with others, doctors can't definitively diagnose the condition until babies are about two years old, when language and social skills start to emerge.

Source: time.com

### [Company-funded studies of approved drugs may not catch safety issues](#)

**February 20, 2017**

Studies drug companies fund after medicines go on sale may be too small to detect rare side effects, a recent German study suggests. Even if these so-called post-marketing studies do uncover previously undetected adverse events, physicians conducting the trials are often required to keep results confidential, limiting the potential for regulators or patients to learn about safety issues, according to the study in The BMJ.

Source: reuters.com

### [Asthmatic Children 6 and Older Can Now Use Spiriva Respimat Spray as Maintenance Therapy](#)

**February 20, 2017**

The U.S. Food and Drug Administration (FDA) expanded the approval of steroid-free Spiriva Respimat (tiotropium bromide) for the maintenance treatment of asthma in children ages 6 and older. The FDA approved the supplemental new drug application (sNDA) under priority review status due to the latest clinical trial results conducted by Boehringer Ingelheim, the drug's manufacturer.

Source: lungdiseaseneews.com

### [Testosterone gel shows no benefit for older men's memories](#)

**February 21, 2017**

Testosterone treatment did not improve older men's memory or mental function in the latest results from landmark government research that challenges the antiaging claims of popular supplements. In older men with low testosterone, one year of testosterone treatment improved bone density and corrected anemia of both known and unknown causes, but also increased the volume of coronary artery plaque, according to results reported from the Testosterone Trials (T Trials). Testosterone treatment had no effect on memory or other cognitive function.

Source: ap.org

### [Pradaxa Superior to Warfarin in “Real World” Study](#)

**February 24, 2017**

Results from a “real world” analysis have shown that dabigatran etexilate mesylate (Pradaxa, Boehringer-Ingelheim) was associated with improved safety and efficacy outcomes compared with warfarin in patients with nonvalvular atrial fibrillation (NVAF). The results were presented at the International Stroke Conference 2017.

Source: managedcaremag.com

### [Newer liquid versions of children’s meds greatly exceed costs of older tablets](#)

**February 23, 2017**

Over the past three years, liquid formulations of a few older medicines were approved for children, but these have come with a price — a steep price. Although youngsters must no longer struggle to swallow tablets or run the risk of compounded liquid versions, the cost of these new preparations greatly outstrips both generic tablets and the compounded alternatives, according to a letter published today in the New England Journal of Medicine.

Source: statnews.com

## RECALLS

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	EYE WASH, 4 fl oz. (118 mL) bottle, OTC, Distributed by: Major Pharmaceutical, 31778 Enterprise Drive, Livonia, MI 48150, Made in Korea, NDC 0904-6491-20	Class I	Lot # G15905, G15907, Exp 10/2018	Non-Sterility: Direct evidence of contamination for 2 lots based on FDA samples.	United Exchange Corporation 17211 Valley View Ave Cerritos, CA 90703-2414
Drugs	Domperidone capsules 10 mg, compounded, dispensed in 60, 90, and 360 count bottles, Jeffreys Drug Store 1 North Central Ave. Canonsburg, PA	Class I	Lot #: 071116-103323, Exp. Date 1/7/2017	Marketed without an approved NDA/ANDA for which safety and efficacy has not been established.	Jeffreys Drug Store 1 N Central Ave Canonsburg, PA 15317-1301
Drugs	Nano PNC Water, packaged in amber glass bottles, Rx only, ICRPstudy.com, Immune Cellular Restoration Program.	Class I	None	Marketed without an Approved NDA/ANDA and non-sterility: NANO PNC Water by nebulizer was sampled and found to contain variovorax paradoxus.	Pacific Medical Solutions 13967 Campo Rd Ste 102 Jamul, CA 91935-3232
Drugs	MakeSense PHARMA, HEMORRHOIDAL RELIEF CREAM Phenylephrine HCL-0.25% Zinc Oxide-12.50%, 1 oz. (28 g) tube, Made in China, Distributed by Cherry Hill Associates, Chesapeake, VA 23320, NDC 69020-205-28	Class II	Lot #103811; Exp. 09/17 Lot #105304; Exp. 04/18 NDC 69020-205-28 UPC 85718100 5108	CGMP Deviations	Cherry Hill Sales Co. 1115 Eden Way N Chesapeake, VA 23320-2751
Drugs	MakeSense PHARMA FIRST AID CREAM Lidocaine HCL 0.5%, Phenol 0.5%, 1 oz. (28 g) tube, Made in China, Distributed by Cherry Hill Associates, Chesapeake, VA 23320, NDC 69020-210-28	Class II	Lot # 103814; Exp. 09/17 Lot # 105306; Exp. 04/18 NDC 69020-210-28 UPC 8571800 5139	CGMP Deviations	Cherry Hill Sales Co. 1115 Eden Way N Chesapeake, VA 23320-2751
Drugs	MakeSense PHARMA Medicated ANTI-ITCH CREAM WITH SOOTHING ALOE VERA AND VITAMIN E, Camphor-1% Menthol-1%, 1oz.(28 g) tube, Made in China, Distributed by Cherry Hill Associates, Chesapeake, VA 23320, NDC 69020-201-28	Class II	Lot: 103814; Exp. 08/17 ND C 69020-201-28 UPC 85718 005016	CGMP Deviations	Cherry Hill Sales Co. 1115 Eden Way N Chesapeake, VA 23320-2751
Drugs	MakeSense PHARMA ANTIFUNGAL CREAM 1 oz. Miconazole Nitrate 2%, 1 oz. (28 g) tube, Made in China, Distributed by Cherry Hill Associates, Chesapeake, VA 23320, NDC 69020-208-28	Class II	Lot #103810; Exp. 09/17 Lot #105303; Exp. 04/18 NDC 69020-208-28 UPC 85718100 5092	CGMP Deviations	Cherry Hill Sales Co. 1115 Eden Way N Chesapeake, VA 23320-2751
Drugs	MakeSense PHARMA ANTIFUNGAL CREAM Clotrimazole 1%, 1.25 oz. (35 g) tube, Made in China, Distributed by Cherry Hill	Class II	Lot # 103803; Exp. 08/17 NDC 69020-203-35 UPC 8571 81005023	CGMP Deviations	Cherry Hill Sales Co. 1115 Eden Way N Chesapeake, VA 23320-2751

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
	Associates, Chesapeake, VA 23320, NDC 69020-203-35				
Drugs	Transderm Scop (scopolamine) Transdermal System, 1.5 mg, 1 patch per pouch (NDC 66758-208-58), packaged in 4-count patches per carton (NDC 66758-208-54), Rx Only, Manufactured by ALZA Corporation, Vacaville, CA 95688 for Sandoz Inc., Princeton, NJ 08540.	Class II	Lot #: 6323Q11, 6328Q11, Exp 06/19; 6355Q11, Exp 07/19	Labeling: Incorrect Instructions: outer carton contains the incorrect instructions for Step 2 stating "Do cut the patch" rather than the correct instructions of "Do not cut the patch". The pouch containing the patch is labeled correctly.	Sandoz Inc 100 College Rd W Princeton, NJ 08540-6604
Drugs	Glipizide 2.5 mg ER Tablets, Manufactured by Watson Laboratories, Inc., Parsippany, NJ 07054, Repackaged by RemedyRepack, Indiana, PA 15701, NDC 52125-0764-02	Class II	Lot # B0129373-021916; Exp. 10/17 00591-0900-30 Original NDC 52125-0764-02 RemedyRepack NDC	Failed Dissolution Specifications	RemedyRepack Inc. 625 Kolter Dr Ste 4 Indiana, PA 15701-3571
Drugs	METRONIDazole Injection, USP 500 mg (5 mg/mL) in 100 mL Single Dose Flexible Container, Rx only, For IV Use, Hospira Inc., Lake Forest, IL --- NDC 0409-7811-24	Class II	Lot: 54-054-JT, 6/1/2017	Lack of Sterility Assurance: customer report of leaking bag	Hospira Inc., A Pfizer Company 275 N Field Dr Lake Forest, IL 60045-2579
Drugs	Eye Irrigating Solution, 4 fl oz (118 mL) bottle, OTC, Distributed by: Rugby Laboratories, 31778 Enterprise Drive, Livonia, MI 48150, Made in Korea, NDC 0536-1083-97	Class II	Lot # G15908, Exp 10/2018; G15909, Exp 01/2018; G16904, Exp 01/2019; G16908, Exp 02/2019; G16912, G16913, Exp 03/2019	Lack of assurance of sterility	United Exchange Corporation 17211 Valley View Ave Cerritos, CA 90703-2414
Drugs	Eye Wash, 4 fl oz (118 mL) bottle, OTC, Distributed by: United Exchange Corp., 17211 Valley View Ave., Cerritos, CA 90703, Made in Korea, UPC Code: 780707005828	Class II	Lot # G15901, G15902, G15903, G15904, Exp 07/31/2018; G16909, Exp 05/30/2019	Lack of assurance of sterility	United Exchange Corporation 17211 Valley View Ave Cerritos, CA 90703-2414
Drugs	EYE WASH, 4 fl oz. (118 mL) bottle, OTC, Distributed by: Major Pharmaceutical, 31778 Enterprise Drive, Livonia, MI 48150, Made in Korea, NDC 0904-6491-20	Class II	Lot # G15906, Exp 10/2018; G15910, G15911, G15912, Exp 11/2018; G16901, G16902, G16903, Exp 01/2019; G16905, G16906, G16907, Exp 02/2019; G16910, G16911, Exp 03/2019	Lack of assurance of sterility	United Exchange Corporation 17211 Valley View Ave Cerritos, CA 90703-2414
Drugs	Duopa (carbidopa and levodopa enteral suspension), 4.63 mg/20 mg per mL, 100 mL cassette, 7 cassettes per carton, Rx Only, AbbVie Inc., North Chicago, IL 60064 --- NDC 0074-3012-07	Class II	Lots: 1055692, Expiration Date (Frozen) 06/01/2018 1057881, Expiration Date (Frozen) 06/02/2018 1060138, Expiration Date (Frozen) 06/13/2018 1060140, Expiration Date (Frozen) 06/15/2018 1061258, Expiration Date (Frozen) 06/17/2018 1061262, Expiration Date (Frozen) 06/30/2018 1063033, Expiration Date (Frozen) 07/14/2018	Failed Stability Specifications: confirmed out of specification results obtained during refrigerated material stability testing indicating that drug may settle within drug cassettes nearing the end of their refrigerated shelf-life	AbbVie Inc. 1 N Waukegan Rd North Chicago, IL 60064-1802
Drugs	glipiZIDE Extended-Release Tablets, 5 mg, 1000 count	Class II	Batch # 3074621, June 2018	Presence of Foreign Tablets/Capsules; bottles	Mylan Pharmaceuticals Inc.

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
	bottles, Rx only, Mylan Pharmaceuticals Inc., Morgantown, WV --- NDC 0378-0342-10			of Glipizide 5 mg tablets may contain Glipizide 10 mg tablets	781 Chestnut Ridge Rd Morgantown, WV 26505-2730
Drugs	Indocin (Indomethacin) suppositories, USP, 50 mg, laminate strips packed in boxes of 30, Rx only, Manufactured by: G&W Laboratories Inc. South Plainfield, NJ 07080, Distributed by Iroko Pharmaceuticals, LLC Philadelphia, PA 19112, NDC 42211-0102-43	Class II	Lot #: 017600011, Exp. Jan 2018, 017600014, Exp. Aug 2018, 017600015, Exp. Sep 2018	Failed Impurities/Degradation Specifications: Out of specification (OOS) for total impurity and out of trend for known impurity results encountered during stability testing.	G & W Laboratories, Inc. 111 Coolidge St South Plainfield, NJ 07080-3895
Drugs	CycloSPORINE Capsules, USP, 100 mg, 30 count (5x6) blister cartons, Rx only, Distributed by American Health Packaging, Columbus, OH--- NDC 68084-921-25	Class II	Lot 154527, exp 4/30/2017	Failed Impurities/Degradations Specifications; out of specification results for Maximum Unknown Impurities and Total Impurities	Amerisource Health Services 2550 John Glenn Ave Ste A Columbus, OH 43217-1188
Drugs	HealthA2Z CHEWABLE Aspirin (NSAID) 81 mg, Orange Flavor, 36 Chewable Tablets, a) packaged in 36-count bottle [UPC Code 369168288362 (FP0545)], b) bulk product (6K28817), OTC, Manufactured by: Allegiant Health Deer Park, NY 11729	Class II	Lot # 6K28817, Exp 10/19 (Packaged in bottle), 10/17 (Bulk)	cGMP deviations - presence of rubber particles found loose in the bulk product.	Allegiant Health 75 N Industry Ct Deer Park, NY 11729-4601
Drugs	Alfuzosin Hydrochloride Extended-release Tablets, 10 mg, 100-count bottles, Rx only, Distributed by: Sun Pharmaceutical Industries, Inc., Cranbury, NJ 08512; Manufactured by: Sun Pharmaceutical Ind. Ltd., Halol-Baroda Highway, Halol-389, Gujarat, India, NDC 47335-956-88.	Class II	Lot #: JKR5219A, JKR5200A, JKR5220A, JKR5221A, JKR5222A, Exp 03/18	Presence of Foreign Substance: consumer complaint for foreign matter embedded in the tablet identified as a broken piece of wire rope from the manufacturing equipment.	Sun Pharmaceutical Industries, Inc. 270 Prospect Plains Rd Cranbury, NJ 08512-3605
Drugs	Calcipotriene Cream 0.0005%, packaged in a) 60g tube, (NDC 66993-877-61), b) 120g tube (NDC 66993-877-78), Rx Only, Manufactured by: LEO Pharma Inc., Dublin, Ireland, Manufactured for: Prasco Laboratories, Mason, OH, 45040	Class II	Lot #: a) EK8760, Exp 2/17; EL1115, Exp 3/17; EL2358, Exp 4/17; EL6143, Exp 7/17; EM0837, Exp 10/17; EM2088, 12/17; A20899, Exp 5/18; A24492, Exp 6/18; b) EK8764, Exp 2/17; EL6145, Exp 7/17; EM2091, Exp 2/17; A25206, Exp 6/18.	Incorrect/Undeclared excipients: inadvertent omission of a drug excipient from the the Authorized Generic label and also a warning regarding contact dermatitis from the brand product labeling not being incorporated into the Authorized Generic labeling.	LEO PHARMA INC 7 Giralda Farms Madison, NJ 07940-1051
Drugs	Edex (alprostadil for injection) 10mcg, packaged in a 2 pack carton, Rx only, Manufactured in Germany for: Actient Pharmaceuticals, LLC, Lake Forest, Illinois 60045; NDC	Class II	Lot #: 207386, Exp. May 2019	Lack of Assurance of Sterility: Defective container resulting in the lack of sterility assurance. ok thanks	Endo Pharmaceuticals, Inc. 1400 Atwater Drive Malvern, PA 19355

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
	52244-010-02.				
Drugs	Pioglitazone and Glimepiride Tablets, USP, 30 mg/4 mg, 30 count bottles, Rx only, Manufactured by Lek Pharmaceuticals d.d., Verovskova Ulica 57, Ljubljana, - SI-1526, Slovenia --- NDC 0781-5635-31	Class II	Lot FY3669 with expiry 11/2017	Failed Dissolution Specifications	Sandoz Inc 100 College Rd W Princeton, NJ 08540-6604
Drugs	Q Care Continue Care Kit for the non-ventilated patient; kit contains 1 Covered Yankauer, 2 Suction Toothbrush packages with Corinz (cetylpyridinium chloride) Antiseptic Cleansing and Moisturizing Oral Rinse, and 2 Suction Oral Swab packages with Corinz (cetylpyridinium chloride) Antiseptic Cleansing and Moisturizing Oral Rinse, Rx only, Sage Products LLC, 3909 more...	Class III	Lot 59123, Exp 11/13/17	Labeling: Incorrect or Missing Lot and/or Exp Date: The expiration date of the Q Care Continue Care kit is printed with an expiration date of November 13, 2017; rather than the correct date of August 28, 2017 (date of expiration of the Corinz Antiseptic Cleansing & Moisturizing Oral Rinse). Note, <a href="#">more...</a>	Sage Products Inc 3909 3 Oaks Rd Cary, IL 60013-1804
Drugs	Salicylic Acid Shampoo, 6%, 177 mL bottle, Rx only, Manufactured By Perrigo Yeruham, Israel, Distributed By Perrigo Allegan, MI 49010, NDC 45802-237-01, UPC 3 45802-237-01 9.	Class III	Lot #: 099534, Exp. 07/18; 099512 Exp. 06/18.	Failed Impurities/Degradation Specifications: The API for these products had an out of specification result for an organic impurity.	L. Perrigo Company 515 Eastern Ave Allegan, MI 49010-9070
Drugs	Salicylic Acid Cream, 6%, 400g bottle, Rx Only, Manufactured By Perrigo Yeruham, Israel 80500, Distributed By Perrigo Allegan, MI 49010, NDC 45802-806-01, UPC 3 45802-806-01 7.	Class III	Lot #: 098840, 098779, Exp. 06/18.	Failed Impurities/Degradation Specifications: The API for these products had an out of specification result for an organic impurity.	L. Perrigo Company 515 Eastern Ave Allegan, MI 49010-9070
Drugs	Zenatane (isotretinoin) capsules, 40 mg, packaged in 30-count cartons (3 x 10 blister cards), Rx Only, Manufactured By: Cipla Limited Kurkumbh Village Pune 413802 India, Manufactured For: Dr. Reddy's Laboratories, Bachupally 500 090 India, NDC 55111-137-81	Class III	Lot # 01KB60250, Exp 3/18	Failed dissolution specifications - low dissolution results at S3 stage.	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623
Drugs	Zenatane (isotretinoin) capsules, 20 mg, packaged in 30-count cartons (3 x 10 blister cards), Rx Only, Manufactured By:Cipla Limited Kurkumbh Village Pune 413802 India, Manufactured For: Dr. Reddy's Laboratories, Bachupally 500 090 India, NDC 55111-136-81	Class III	Lot # KB50877, KB50878, Exp 11/17; KB50878, 01KB60251, Exp 3/18	Failed dissolution specifications - low dissolution results at S3 stage.	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	Zenatane (isotretinoin) capsules, 30 mg, packaged in 30-count cartons (3 x 10 blister cards), Rx Only, Manufactured By:Cipla Limited Kurkumbh Village Pune 413802 India, Manufactured For: Dr. Reddy's Laboratories, Bachupally 500 090 India, NDC 5511-113-81	Class III	Lot # KB60036, Exp 12/17	Failed dissolution specifications - low dissolution results at S3 stage.	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623
Drugs	Zenatane (isotretinoin) capsules, 10 mg, packaged in 30-count cartons (3 x 10 blister cards), Rx Only, Manufactured By:Cipla Limited Kurkumbh Village Pune 413802 India, Manufactured For: Dr. Reddy's Laboratories, Bachupally 500 090 India, NDC 55111-135-81	Class III	Lot # KB60197, Exp 2/18	Failed dissolution specifications - low dissolution results at S3 stage.	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623
Drugs	Levofloxacin Ophthalmic Solution, 0.5%, Sterile, packaged in 5mL bottles, Rx Only, Manufactured by Hi-Tech Pharmacal Co., Inc., Amityville, NY 11707, NDC 50383-283-05	Class III	Lot # 348748, Exp 11/30/2017; 350578, Exp 3/31/2018; 633467, Exp 3/31/2017	Failed Impurities/Degradation Specifications: OOS for related compound (levofloxacin n-oxide) at the 18 month stability time point.	Actavis Inc 400 Interpace Pkwy Parsippany, NJ 07054-1120
Drugs	Risedronate Sodium Delayed-release Tablets, 35 mg, Once-a-Week, 1 tablet per blister (NDC 0093-5509-19), packaged in 4 blisters per carton (NDC 0093-5509-44), Rx only, TEVA PHARMACEUTICALS USA, INC., North Wales, PA 19454.	Class III	Lot # 34025762A, Exp 06/17	Failed Dissolution Specifications: low out of specification dissolution results found during stability testing.	Teva Pharmaceuticals USA 1090 Horsham Rd North Wales, PA 19454-1505

\*Please refer to FDA website for further information; <http://www.fda.gov/Safety/Recalls/EnforcementReports/default.htm>

## CURRENT DRUG SHORTAGES

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### Dihydroergotamine Mesylate Injection

February 16, 2017

#### Reason for the Shortage

- Perrigo and Valeant did not provide a reason for the shortage.

#### Estimated Resupply Dates

- Perrigo has dihydroergotamine 1 mg/mL 1 mL ampules in 5 count and 10 count on allocation.
- Valeant has D.H.E. 45 1 mg/mL 1 mL ampules on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1050>

### Indomethacin Capsules

February 17, 2017

#### Reason for the Shortage

- Glenmark had indomethacin 25 mg 100 count on shortage due to manufacturing delays.
- Heritage did not provide a reason for the shortage.
- Sandoz discontinued indomethacin in mid-2016.
- Teva did not provide a reason for the shortage.

#### Estimated Resupply Dates

- Heritage has indomethacin 50 mg capsules in 100 count and 500 count on back order and the company cannot estimate a release date. Heritage has short-dated indomethacin 25 mg capsules in 100 count available.
- Teva has all indomethacin presentations temporarily unavailable and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1051>

### Methotrexate Injection

February 21, 2017

#### Reason for the Shortage

- Accord did not provide a reason for the shortage.
- Fresenius Kabi has methotrexate injection available.
- Mylan did not provide a reason for the shortage.
- Teva has methotrexate on shortage due to manufacturing delays.
- Pfizer (Hospira) has methotrexate injection available.

#### Estimated Resupply Dates

- Accord has methotrexate 25 mg/mL 2 mL, 10 mL, and 40 mL vials on back order and the company estimates a release date of late-March 2017.
- Mylan Institutional has methotrexate injection temporarily unavailable and the company cannot estimate a release date.



- Pfizer has methotrexate 25 mg/mL 2 mL vials available in limited supply. Methotrexate 25 mg/mL 40 mL vials are on back order and the company estimates a release date of early-April 2017.
- Teva has methotrexate 25 mg/mL 2 mL, 10 mL, and 40 mL vials on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=26>

### **Mupirocin Calcium 2% Cream**

**February 21, 2017**

#### Reason for the Shortage

- GlaxoSmithKline is looking for an alternative supply source.
- Prasco discontinued mupirocin calcium 2% cream in February 2016.

#### Estimated Resupply Dates

- GlaxoSmithKline has Bactroban 2% cream in 15g and 30g sizes on long-term back order and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1206>

### **Mupirocin Calcium 2% Nasal Ointment**

**February 21, 2017**

#### Reason for the Shortage

- GlaxoSmithKline states the shortage is due to manufacturing issues. GlaxoSmithKline is looking for an alternative supply source.

#### Estimated Resupply Dates

- GlaxoSmithKline has Bactroban Nasal 2% Ointment in 1 gram tubes on long-term back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1094>

### **Ranitidine Injection**

**February 21, 2017**

#### Reason for the Shortage

- West-Ward discontinued ranitidine injection in September 2014.
- Covis had Zantac on shortage due to capacity issues at the manufacturer.
- IGI laboratories acquired Zantac injection from Covis in October 2015.
- Zydus had temporarily discontinued ranitidine injection due to stability issues.
- Oral ranitidine products are not affected by this shortage.

#### Estimated Resupply Dates

- All marketed presentations are available

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=820>

### Dexmedetomidine Hydrochloride in 0.9% Sodium Chloride Injection

February 22, 2017

#### Reason for the Shortage

- Pfizer has Precedex 50 mL and 100 mL premixed bottles on shortage due to manufacturing delay.
- Dexmedetomidine 100 mcg/mL vials are not affected by this shortage.

#### Estimated Resupply Dates

- Pfizer has Precedex 50 mL and 100 mL premixed bottles on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1263>

### Lidocaine Topical 4% Solution

February 22, 2017

#### Reason for the Shortage

- Amphastar did not provide a reason for the shortage.
- Teligent did not provide a reason for the shortage.
- West-Ward did not provide a reason for the shortage.

#### Estimated Resupply Dates

- Teligent has lidocaine topical 4% solution in 50 mL bottles on allocation.
- West-Ward has lidocaine topical 4% solution in 50 mL bottles on back order and the company estimates a release date in late-March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1128>

### Norepinephrine Bitartrate Injection

February 22, 2017

#### Reason for the Shortage

- Pfizer has Levophed on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- Pfizer has Levophed 1 mg/mL 4 mL vials and ampules on back order and the company estimates a release date of mid-March 2017 for the vials and April 2017 for the ampules.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1262>

### Sodium Chloride 0.9% Injection Bags

February 22, 2017

#### Reason for the Shortage

- Baxter discontinued 0.9% sodium chloride 250 mL and 500 mL AVIVA bags. The other presentations are available or on allocation.
- BBraun has 0.9% sodium chloride available for current customers.
- Hospira cites increased demand as the reason for the shortage.
- Fresenius Kabi is no longer importing product.

- Baxter has received FDA approval for 0.9% sodium chloride in Viaflo containers manufactured in an FDA-approved facility in Spain.

#### Estimated Resupply Dates

- Baxter has 0.9% sodium chloride in 250 mL Viaflex bags on allocation.1
- BBraun has 0.9% sodium chloride in 250 mL, 500 mL, and 1000 mL PVC/DEHP-free bags on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=993>

### Clindamycin Injection

**February 23, 2017**

#### Reason for the Shortage

- Akorn did not provide a reason for the shortage.
- Pfizer has Cleocin available.
- Alvogen has clindamycin injection available.
- Sandoz has clindamycin injection available.
- Sagent has clindamycin injection available.

#### Estimated Resupply Dates

- Fresenius Kabi has clindamycin 150 mg/mL 2 mL, 4 mL, and 6 mL vials available with short expiration dating of <5 months for the 2 mL vials, <7 months for the 4 mL vials, and <2 months for the 6 mL vials. The 60 mL bulk vials are on back order and the company cannot estimate a release date.
- Sagent has clindamycin 150 mg/mL 60 mL bulk vials available with an expiration date of June 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1029>

### Ketorolac Tromethamine Injection

**February 23, 2017**

#### Reason for the Shortage

- BD Rx has ketorolac injection available. BD RX is now part of Fresenius Kabi.
- Fresenius Kabi has ketorolac injection available.
- Pfizer has ketorolac injection available.
- Sagent states the reason for the shortage is manufacturing delay.
- West-Ward is not actively marketing ketorolac injection.
- Ben Venue closed its plant in Bedford, Ohio in July 2014.
- FDA imposed an import ban in mid-2013 on several Wockhardt products including ketorolac.
- Sprix Nasal Spray is not affected by this shortage.

#### Estimated Resupply Dates

- Sagent has ketorolac 15 mg/mL 1 mL vials, 30 mg/mL 1 mL vials, and 30 mg/mL 2 mL vials for intramuscular injection on back order and the company estimates a release date of March 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=593>

### Penicillin G Benzathine

February 24, 2017

#### Reason for the Shortage

- Pfizer states the shortage is due to a delay in the manufacturing process.

#### Estimated Resupply Dates

- Pfizer has Bicillin L-A 600,000 unit/ 1 mL syringes, 1,200,000 unit/ 2 mL syringes, and 2,400,000 unit/ 4 mL syringes on allocation

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1232>

### Penicillin G Benzathine/Penicillin G Procaine

February 24, 2017

#### Reason for the Shortage

- Pfizer has Bicillin C-R and Bicillin C-R 900/300 on shortage due to manufacturing delays

#### Estimated Resupply Dates

- Pfizer has Bicillin C-R 1,200,000 units/2 mL prefilled syringes and 1,200,000 units/2 mL pediatric prefilled syringes on allocation.
- Pfizer has Bicillin C-R 900/300 2 mL pediatric prefilled syringes on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1249>

### Penicillin G Procaine Injection

February 24, 2017

#### Reason for the Shortage

- Pfizer has penicillin G procaine on shortage due to manufacturing delays.
- Pfizer is the sole supplier of penicillin G procaine.

#### Estimated Resupply Dates

- Pfizer has penicillin G procaine 600,000 unit/mL 1 mL and 2 mL vials on back order and the company estimates a release date of early-April 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1238>

### Vecuronium Bromide Injection

February 24, 2017

#### Reason for the Shortage

- Pfizer has vecuronium on shortage due to manufacturing delays.
- Teva is not actively marketing vecuronium.
- Pfizer sold vecuronium injection to Mylan Institutional in December 2013.
- Ben Venue has stopped production in its plant in Bedford, Ohio and closed in 2014.
- Caraco will not provide availability information at this time.
- Sagent is not marketing vecuronium 10 mg and 20 mg vials.

#### Estimated Resupply Dates

- Pfizer has vecuronium 10 mg and 20 m vials available in limited supply

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=490>

### **Cisplatin Injection**

**February 24, 2017**

#### Reason for the Shortage

- Fresenius Kabi did not provide a reason for the shortage.
- Mylan Institutional could not provide a reason for the shortage.
- Teva was allocating cisplatin to prevent stockpiling.
- WG Critical Care could not provide a reason for the shortage

#### Estimated Resupply Dates

- Mylan Institutional has cisplatin 50 mL and 100 mL vials on back order and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=57>

### **Disopyramide Phosphate Controlled-release Capsules**

**February 24, 2017**

#### Reason for the Shortage

- Pfizer has disopyramide controlled-release capsules on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- Pfizer has Norpace CR available but with short-expiration dating. The 100 mg capsules in 100 count and 500 count and 150 mg capsules in 500 count have an expiration date of May 2017. The 150 mg capsules in 100 count have an expiration date of June 2017. Once this supply is depleted the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1139>

### **Gentamicin injection**

**February 24, 2017**

#### Reason for the Shortage

- Pfizer has discontinued all premixed bags.

#### Estimated Resupply Dates

- Pfizer has gentamicin 40 mg/mL 2 mL vials available in limited supply.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=728>

### **Alcohol Dehydrated Injection (Ethanol)**

**February 27, 2017**

#### Reason for the Shortage

- Akorn states the back order was due to manufacturing delays.

#### Estimated Resupply Dates

- American Regent has dehydrated alcohol 1 mL ampules on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=778>

### Dopamine Hydrochloride Injection

**February 27, 2017**

#### Reason for the Shortage

- American Regent has dopamine on shortage due to manufacturing delays.
- Baxter could not provide a reason for the shortage.
- Pfizer states the shortage is due to manufacturing delays.

#### Estimated Resupply Dates

- American Regent has all dopamine presentations on back order and the company cannot estimate a release date.
- Baxter has dopamine 400 mg/500 mL premixed bags available in limited supply.
- Pfizer has dopamine 40 mg/mL 10 mL vials on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1243>

### Haloperidol Lactate Injection

**February 27, 2017**

#### Reason for the Shortage

- Patriot Pharmaceuticals has haloperidol lactate available.
- Sagent has haloperidol lactate on shortage due to manufacturing delays.
- Teva is not currently marketing haloperidol lactate.
- West-Ward Pharmaceuticals' parent company, Hikma Pharmaceuticals, acquired several products from Bedford Laboratories in July 2014 including haloperidol lactate injection. West-Ward is not actively marketing haloperidol lactate at this time.
- Janssen has Haldol injection available.

#### Estimated Resupply Dates

- Sagent has haloperidol lactate 5 mg/mL 10 mL vials on back order and the company cannot estimate a release date. Haloperidol lactate 5 mg/mL 1 mL vials are on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=527>

### Multiple Vitamins for Infusion

**February 27, 2017**

#### Reason for the Shortage

- Pfizer states the shortage is due to manufacturing delays.
- Baxter has all presentations fully available at this time.

#### Estimated Resupply Dates

- Pfizer states the shortage is due to manufacturing delays.
- Baxter has all presentations fully available at this time.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=831>

### Scopolamine Transdermal System

February 27, 2017

#### Reason for the Shortage

- Baxter has Transderm Scop in 10 count and 24 count available.
- Sandoz has Transderm Scop on shortage due to increased demand. Sandoz changed their NDC number in late 2016.

#### Estimated Resupply Dates

- Sandoz has Transderm Scop in 4 count on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=837>

### Tobramycin Injection

February 27, 2017

#### Reason for the Shortage

- Akorn has tobramycin injection on shortage due to manufacturing delays.
- Mylan Institutional could not provide a reason for the shortage.

#### Estimated Resupply Dates

- Akorn has tobramycin injection on shortage due to manufacturing delays.
- Mylan Institutional could not provide a reason for the shortage.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=701>

### Leuprolide Acetate 14-Day Kit

February 28, 2017

#### Reason for the Shortage

- Caraco will not provide availability information.
- Sandoz states the reason for the shortage was increased demand.
- Teva states the shortage is due to manufacturing delays.

#### Estimated Resupply Dates

- Teva has leuprolide acetate injection on long-term back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=737>

### Fludarabine Injection

February 28, 2017

#### Reason for the Shortage

- Actavis has fludarabine available.
- Fresenius Kabi has fludarabine on shortage due to increased demand.
- Pfizer has fludarabine on shortage due to increased demand.
- Sagent has fludarabine 25 mg/mL 2 mL vials on shortage due to manufacturing delays

#### Estimated Resupply Dates

- Fresenius Kabi has fludarabine 25 mg/mL 2 mL vials on back order and the company estimates a release date of early-April 2017.
- Pfizer has fludarabine lyophilized powder 50 mg vials on back order and the company estimates a release date of late-May 2017.
- Sagent has fludarabine 25 mg/mL 2 mL vials on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=648>

### Albuterol Inhalation Solution

**March 01, 2017**

#### Reason for the Shortage

- Nephron is refusing to provide shortage information for albuterol 0.5% unit-of-use vials. The other strengths and sizes of albuterol inhalation solution are not affected at this time

#### Estimated Resupply Dates

- Nephron has albuterol 2.5 mg/0.5 mL unit-of-use vials on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1264>

### Atropine Sulfate Injection

**March 01, 2017**

#### Reason for the Shortage

- Pfizer states the shortage was due to manufacturing delays.

#### Estimated Resupply Dates

- Pfizer has atropine 0.05 mg/mL 5 mL Ansyr syringes on back order and the company cannot estimate a release date. The 0.1 mg/mL 10 mL LifeShield syringes are on back order and the company estimates a release date of late-April 2017. The 0.1 mg/mL 5 mL LifeShield syringes are available in limited supply.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=814>

### Bupivacaine Injection

**March 01, 2017**

#### Reason for the Shortage

- AuroMedics has not provided a reason for the shortage.
- Fresenius Kabi has Sensorcaine on shortage due to increased demand for the product.
- Pfizer has bupivacaine on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- AuroMedics has 0.25% bupivacaine 10 mL vials and 0.75% bupivacaine 30 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has 0.25% Sensorcaine preservative-free 30 mL vials in sterile packs on back order and the company estimates a release date of mid-April 2017.
- Pfizer has 0.25% bupivacaine 50 mL and 0.5% Marcaine 50 mL vials available in limited supply.



- Pfizer has 0.25% Marcaine 50 mL and 0.5% Marcaine 50 mL vials available in limited supply. <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=864>

### Bupivacaine with epinephrine Injection

**March 01, 2017**

#### Reason for the Shortage

- Fresenius Kabi has bupivacaine and epinephrine on shortage due to increased demand and manufacturing delays.
- Pfizer has bupivacaine with epinephrine on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- Fresenius Kabi has 0.25% Sensorcaine-MPF with epinephrine 10 mL vials and 0.5% Sensorcaine-MPF with epinephrine 10 mL vials on back order and the company estimates a release date of mid-April 2017. The 0.25% Sensorcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of early-March 2017. The 0.5% Sensorcaine-MPF with epinephrine 30 mL vials are on back order and the company estimates a release date of late-March 2017. The 0.5% Sensorcaine-MPF with epinephrine 30 mL vials sterile packs are on back order and the company estimates a release date of mid-April 2017. The 0.5% Sensorcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of early-March 2017.
- Pfizer has 0.25% bupivacaine with epinephrine 10 mL and 30 mL preservative-free vials available in limited supply. The 0.25% bupivacaine with epinephrine 50 mL vials are available in limited supply. The 0.5% bupivacaine with epinephrine 10 mL and 30 mL preservative-free vials are on back order and the company estimates a release date of mid-April 2017 for the 10 mL vials and late-April 2017 for the 30 mL vials.
- Pfizer has 0.25% Marcaine with epinephrine 10 mL preservative-free vials available in limited supply. The 0.25% Marcaine 50 mL vials are on back order and the company estimates a release date of early-March 2017. The 0.5% Marcaine with epinephrine 10 mL and 30 mL preservative-free vials are available in limited supply. The 0.5% Marcaine 50 mL vials are on back order and the company estimates a release date of early-March 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=937>

### Calcium Chloride Injection

**March 01, 2017**

#### Reason for the Shortage

- American Regent has calcium chloride on shortage due to manufacturing delays.
- Amphastar has calcium chloride available.
- Pfizer has calcium chloride on shortage due to manufacturing delays.
- Mylan Institutional has withdrawn calcium chloride syringes from the market. The company recalled the syringes in April 2015 due to incompatibility of the syringes and some needless adaptors.

#### Estimated Resupply Dates

- American Regent has calcium chloride 100 mg/mL 10 mL vials on back order and the company cannot estimate a release date.

- Pfizer has calcium chloride 100 mg/mL 10 mL Ansyr syringes available in limited supply. The 100 mg/mL 10 mL LifeShield syringes are on back order and the company estimates a release date of early-May 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=941>

### Dobutamine Injection

**March 01, 2017**

#### Reason for the Shortage

- Baxter did not provide a reason for the shortage.
- Pfizer has dobutamine on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- Baxter did not provide a reason for the shortage.
- Pfizer has dobutamine on shortage due to manufacturing delays.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=929>

### Morphine Injections

**March 01, 2017**

#### Reason for the Shortage

- Astramorph injection has been unavailable since 2012. Fresenius Kabi changed manufacturing sites and cannot estimate if Astramorph will return.
- Pfizer states the shortage is due to manufacturing delays. Pfizer discontinued morphine ADD-Vantage vials in January 2017.
- West-Ward launched several new morphine sulfate products in late-September 2015. They are not actively marketing the 15 mg/mL 1 mL vials or the 8 mg/mL 1 mL vials (NDC 00641-6075-25). They are still marketing the 8 mg/mL 1 mL vials with NDC 00641-6126-25.

#### Estimated Resupply Dates

- West-Ward has Infumorph 10 mg/mL 20 mL preservative-free vials on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=664>

### Famotidine Injection

**March 02, 2017**

#### Reason for the Shortage

- Ben Venue stopped production in its plant in Bedford, Ohio and closed in July 2014.
- West-Ward states the shortage was due to manufacturing delays.
- Oral famotidine products are not affected by this shortage.
- Pfizer launched famotidine injections in March, 2012.
- Mylan Institutional acquired famotidine injections from Pfizer on December 6, 2013.
- Baxter has famotidine premixed bags available.<sup>6</sup>
- Fresenius Kabi did not provide a reason for the shortage.

#### Estimated Resupply Dates

- Mylan Institutional has temporarily discontinued famotidine 10 mg/mL 2 mL vials and has famotidine 10 mg/mL 4 mL and 20 mL vials on back order. The company estimates a release date of late-March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=810>

### Asparaginase *Erwinia chrysanthemi*

**March 03, 2017**

#### Reason for the Shortage

- Jazz Pharmaceuticals had Erwinaze on shortage due to manufacturing issues.

#### Estimated Resupply Dates

- Jazz Pharmaceuticals has Erwinaze available. The company requests that Erwinaze only be ordered for patients who are currently undergoing treatment or initiating treatment.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1252>

### Amino Acid Products

**March 03, 2017**

#### Reason for the Shortage

- Baxter could not provide a reason for the shortage.
- BBraun has not yet provided availability information for their amino acid products.
- Pfizer has several Aminosyn presentations on back order due to an ingredient shortage which has caused a supply disruption. Pfizer has obtained the ingredient, but does not yet have an estimated date as to when manufacturing will resume.

#### Estimated Resupply Dates

- Baxter could not provide a reason for the shortage.
- BBraun has not yet provided availability information for their amino acid products.
- Pfizer has several Aminosyn presentations on back order due to an ingredient shortage which has caused a supply disruption. Pfizer has obtained the ingredient, but does not yet have an estimated date as to when manufacturing will resume.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=671>

### Sincalide Injection

**March 06, 2017**

#### Reason for the Shortage

- Bracco Diagnostics has Kinevac injection on shortage due to a supply disruption.
- There are no approved alternatives to Kinevac for the labeled indications.

#### Estimated Resupply Dates

- Bracco has Kinevac on back order and the company estimates a release date in early-April 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1032>

### Belatacept Injection

March 07, 2017

#### Reason for the Shortage

- Bristol-Myers Squibb has Nulojix in short supply due to manufacturing delays.

#### Estimated Resupply Dates

- Bristol-Myers Squibb has limited distribution of Nulojix. They have product only for existing patients available through the US Nulojix Distribution Program. They have no estimated recovery date, but do not expect full recovery before the end of 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1265>

### Mitoxantrone Hydrochloride Injection

March 07, 2017

#### Reason for the Shortage

- Fresenius Kabi had mitoxantrone on shortage due to increased demand.
- Pfizer has mitoxantrone injection on shortage due to manufacturing delays.
- Teva had mitoxantrone injection on allocation due to current market conditions.

#### Estimated Resupply Dates

- Pfizer has all mitoxantrone presentations on long-term back order and the company estimates a release date of early-4th quarter 2017.
- Teva has mitoxantrone 10 mL vials temporarily unavailable and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1212>

### Nitroglycerin Injection

March 07, 2017

#### Reason for the Shortage

- American Regent did not provide a reason for the shortage.
- The premixed bags are not affected by this shortage

#### Estimated Resupply Dates

- American Regent has nitroglycerin 50 mg/mL 10 mL vials available.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=786>

### Oxacillin Sodium Injection

March 07, 2017

#### Reason for the Shortage

- Auromedics did not provide a reason for the shortage.
- Baxter has oxacillin on shortage due to a raw material supply disruption.
- Sagent has oxacillin injection on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- Auromedics did not provide a reason for the shortage.

- Baxter has oxacillin on shortage due to a raw material supply disruption.
- Sagent has oxacillin injection on shortage due to manufacturing delays.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1121>

### Oxytocin Injection

**March 07, 2017**

#### Reason for the Shortage

- Fresenius Kabi states the shortage was due to increased demand.
- Par Sterile Products (formerly JHP) discontinued generic oxytocin injection in July 2014. Par Sterile Products discontinued Pitocin 10 unit/mL 50 mL vials in September 2015.
- West-Ward is not actively marketing oxytocin.

#### Estimated Resupply Dates

- Fresenius Kabi states the shortage was due to increased demand.
- Par Sterile Products (formerly JHP) discontinued generic oxytocin injection in July 2014. Par Sterile Products discontinued Pitocin 10 unit/mL 50 mL vials in September 2015.
- West-Ward is not actively marketing oxytocin.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=876>

### Methylphenidate Transdermal

**March 08, 2017**

#### Reason for the Shortage

- Noven has Daytrana patches on shortage due to packaging problems.

#### Estimated Resupply Dates

- Noven has all Daytrana presentations on back order and the company estimates a release date of April to May 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1216>

### Rocuronium Injection

**March 08, 2017**

#### Reason for the Shortage

- Fresenius Kabi has rocuronium on shortage due to delay of raw materials.
- Pfizer has rocuronium on shortage due to manufacturing delays.
- Sagent has rocuronium on shortage due to increased demand.
- X-Gen has rocuronium on shortage due to increased demand.

#### Estimated Resupply Dates

- Fresenius Kabi has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of 2nd quarter 2017.
- Sagent has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of March 2017.
- X-Gen has rocuronium on 10 mg/mL 5 mL vials on back order and the company estimates a release date of mid-March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=434>

### Sodium Phosphate Injection

**March 08, 2017**

#### Reason for the Shortage

- American Regent has sodium phosphate injection on shortage due to manufacturing delay.
- Fresenius Kabi states the reason for the shortage was increased demand.
- Pfizer had sodium phosphate injection on shortage due to manufacturing delay

#### Estimated Resupply Dates

- American Regent has sodium phosphate 3 mmol/mL 5 mL, 15 mL, and 50 mL vials on back order and the company cannot estimate a release date.
  - Fresenius Kabi has imported Glycophos available with an expiration date of <1 month
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=770>

### Cefepime Injection

**March 08, 2017**

#### Reason for the Shortage

- Apotex could not provide a reason for the shortage.
- BBraun has cefepime on allocation due to increased demand.
- Baxter has cefepime on shortage due to increased demand.
- Fresenius Kabi had cefepime injection on shortage due to manufacturing delays.
- Sagent has cefepime injection on shortage due to manufacturing delays.
- WG Critical Care had cefepime injection on shortage due to increased demand.
- Pfizer has Maxipime on shortage due to manufacturing delays.
- Sandoz discontinued cefepime injection in early 2016.

#### Estimated Resupply Dates

- Apotex has cefepime 1 gram vials in 1 count and 10 count on back order and the company estimates a release date of late-March 2017. The 2 gram vials in 1 count are on back order and the company estimates a release date of mid-March 2017.
- BBraun has cefepime 1 and 2 gram premixed bags on allocation to contracted customers.
- Baxter has cefepime 1 gram/50 mL premixed bags on allocation.
- Fresenius Kabi has cefepime 1 gram vials on back order and the company estimates a release date of early-June 2017.
- Pfizer has Maxipime 2 gram ADD-Vantage vials and 2 gram vials on allocation. The 1 gram vials are on back order and the company estimates a release date of March 2017. The 1 gram ADD-Vantage vials are on back order and the company estimates a release date of July 2017.
- Sagent has cefepime 1 gram and 2 gram vials on back order and the company estimates a release date of March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1176>

### Cefotetan Disodium Injection

March 08, 2017

#### Reason for the Shortage

- BBraun had cefotetan on allocation due to current market conditions.
- Fresenius Kabi states the reason for the shortage is manufacturing delay.
- Teligent received FDA approval for Cefotan in 2015. Teligent launched Cefotan in March 2016.

#### Estimated Resupply Dates

- Fresenius Kabi has cefotetan 10 gram vials on back order and the company estimates a release date of mid-April 2017. The 2 gram vials are available with an expiration date of <7 months.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1097>

### Dolasetron Mesylate Injection

March 08, 2017

#### Reason for the Shortage

- Validus Pharmaceuticals acquired Anzemet injection from Sanofi US in December 2015.
- Validus Pharmaceuticals has temporarily discontinued all Anzemet injection presentations and cannot estimate a resupply date.

#### Estimated Resupply Dates

- Validus Pharmaceuticals has temporarily discontinued all Anzemet injection presentations and the company cannot estimate a resupply date. The company does not expect product before the second half of 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1230>

### Doxorubicin Injection

March 08, 2017

#### Reason for the Shortage

- West-Ward Pharmaceuticals' parent company, Hikma Pharmaceuticals, acquired Adriamycin injection from Bedford in July 2014. West-Ward is not actively marketing Adriamycin injection at this time.
- Teva had doxorubicin solution for injection on allocation due to current market conditions.
- Fresenius Kabi has doxorubicin solution for injection available.
- Caraco has discontinued doxorubicin solution for injection 25 mL and 100 mL vials.
- Pfizer had doxorubicin solution for injection on shortage due to shipping delays
- Sagent has doxorubicin solution for injection on back order due to manufacturing delays.
- Mylan Institutional could not provide a reason for the reason shortage.
- Actavis has doxorubicin injection available.
- FDA is allowing temporary importation of doxorubicin lyophilized powder for injection 50 mg vials. These vials were manufactured for Hospira UK Limited. The labeling as well as bar coding for the imported product is different from the US version. FDA has the Dear Healthcare Professional Letter linked on their website. The letter includes a link to both the US and United Kingdom package inserts to help explain the differences in labeling and packaging

#### Estimated Resupply Dates

- Sagent has doxorubicin 2 mg/mL 25 mL and 100 mL vials on back order and the company cannot estimate a release date. The 5 mL vials are on back order and the company estimates a release date of March 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=464>

### Hydroxyzine Hydrochloride Injection

**March 08, 2017**

#### Reason for the Shortage

- American Regent would not provide a reason for the shortage. They are the sole supplier of hydroxyzine injection.

#### Estimated Resupply Dates

- American Regent has hydroxyzine 25 mg/mL 1 mL vials, 50 mg/mL 2mL vials, and 50 mg/mL 10 mL vials on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1185>

### 70% Dextrose Injection Large Volume Bags

**March 09, 2017**

#### Reason for the Shortage

- Baxter has 70% dextrose 2,000 mL bags on shortage due to manufacturing delays.1
- BBraun discontinued 70% dextrose in 1,000 mL glass bottles in 2016. The 70% dextrose 2,000 mL bags are on allocation due to increased demand.2
- Pfizer has 70% dextrose 500 mL in 1000 mL partial fill bags on back order due to manufacturing delays

#### Estimated Resupply Dates

- Baxter has 70% dextrose 2,000 mL bags on shortage due to manufacturing delays.1
- BBraun discontinued 70% dextrose in 1,000 mL glass bottles in 2016. The 70% dextrose 2,000 mL bags are on allocation due to increased demand.2
- Pfizer has 70% dextrose 500 mL in 1000 mL partial fill bags on back order due to manufacturing delays

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1133>

### Ampicillin Sulbactam

**March 09, 2017**

#### Reason for the Shortage

- Mylan Institutional discontinued ampicillin sulbactam 1.5 gram and 3 gram vials.
- Pfizer has discontinued generic ampicillin sulbactam.
- Sandoz cannot provide a reason for the shortage.
- Sagent had ampicillin sulbactam vials on allocation due to increased demand for the product.
- WG Critical Care states the shortage was due to increased demand

#### Estimated Resupply Dates



- AuroMedics has ampicillin sulbactam 1.5 gram, 3 gram, and 15 gram vials on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has ampicillin sulbactam 1.5 gram, 3 gram, and 15 gram vials on back order and the company cannot estimate a release date.
- Mylan Institutional has ampicillin sulbactam 15 gram bulk vials on back order and the company estimates a release date of late-March 2017.
- Sandoz has ampicillin sulbactam 1.5 gram, 3 gram, and 15 gram vials temporarily unavailable and the company cannot estimate a release date.
- West-Ward has ampicillin sulbactam 1.5 gram and 3 gram vials on a weekly allocation. The 15 gram vials are on back order and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=805>

### Ceftazidime Injection

**March 10, 2017**

#### Reason for the Shortage

- IGI Laboratories changed its name to Teligent in late-October 2015.
- Covis divested Fortaz injection to IGI Laboratories in October 2015.
- Pfizer had Tazicef on shortage due to manufacturing delays.
- Sagent has ceftazidime injection on shortage due to manufacturing delays.
- Sandoz discontinued ceftazidime 1 gram and 2 gram vials in 2015.
- BBraun has ceftazidime on allocation due to increased demand.

#### Estimated Resupply Dates

- IGI Laboratories changed its name to Teligent in late-October 2015.
- Covis divested Fortaz injection to IGI Laboratories in October 2015.
- Pfizer had Tazicef on shortage due to manufacturing delays.
- Sagent has ceftazidime injection on shortage due to manufacturing delays.
- Sandoz discontinued ceftazidime 1 gram and 2 gram vials in 2015.
- BBraun has ceftazidime on allocation due to increased demand.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=869>

### Vancomycin Hydrochloride Injection

**March 10, 2017**

#### Reason for the Shortage

- Pfizer has vancomycin injection available.
- Fresenius Kabi has vancomycin injection on shortage due to increased demand.
- Mylan Institutional has vancomycin injection available.
- Baxter is allocating vancomycin.
- Sagent has vancomycin injection on allocation due to manufacturing delays

#### Estimated Resupply Dates

- Fresenius Kabi has vancomycin 10 gram vials on intermittent back order and the company is releasing product as it becomes available.
- Sagent has vancomycin 10 gram vials on allocation

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=132>

## Ampicillin Injection

March 12, 2017

### Reason for the Shortage

- AuroMedics did not provide a reason for the shortage.
- Fresenius Kabi has ampicillin injection available.
- Sagent states the reason for the shortage is manufacturing delay.
- Sandoz could not provide a reason for the shortage.
- WG Critical Care has ampicillin injection available

### Estimated Resupply Dates

- Sagent has ampicillin 250 mg vials on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1226>

## Calcium Gluconate Injection

March 12, 2017

### Reason for the Shortage

- American Regent has calcium gluconate on shortage due to manufacturing delays.
- Fresenius Kabi has calcium gluconate available with alternating short-dating due to manufacturing process of the vials.
- American Regent has issued a statement that all lots of calcium gluconate may contain glass particles and filters must be used. Do not use if there are visible glass particles and filter all other product

### Estimated Resupply Dates

- American Regent has calcium gluconate 100 mg/mL 50 mL and 100 mL vials on back order and the company cannot estimate a release date.
- Fresenius Kabi has calcium gluconate 100 mg/mL 10 mL, 50 mL, and 100 mL vials on back order and the company estimates a release date of late-March 2017 for the 10 mL and 50 mL vials and mid-March 2017 for the 100 mL vials.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=48>

## Lidocaine with Epinephrine Injection

March 12, 2017

### Reason for the Shortage

- Fresenius Kabi has Xylocaine with epinephrine presentations on shortage due to increased demand for the product and manufacturing delays.
- Pfizer has lidocaine with epinephrine presentations on shortage due to manufacturing delays.

### Estimated Resupply Dates

- Pfizer has 1% lidocaine with epinephrine (1:100,000) 20 mL and 30 mL vials on back order and the company estimates a release date of mid-April 2017 for the 20 mL vials and late-April 2017 for the 30 mL vials. The 2% lidocaine with epinephrine (1:200,000) 20 mL vials are available in limited supply. The 2% lidocaine with epinephrine (1:100,000) 20 mL and 30 mL vials are available in limited supply.

- Fresenius Kabi has 0.5% Xylocaine with epinephrine (1:200,000) 50 mL vials on back order and the company estimates a release date of mid-April 2017. The 1% Xylocaine with epinephrine (1:200,000) 10 mL, 20 mL, and 50 mL vials are on back order and the company estimates a release date of mid-April 2017 for the 10 mL vials and mid-March 2017 for the 20 mL and 50 mL vials. The 1% Xylocaine-MPF with epinephrine (1:200,000) 10 mL vials are on back order and the company estimates a release date of mid-April 2017. The 1.5% Xylocaine-MPF with epinephrine (1:200,000) 10 mL vials are on back order and the company estimates a release date of mid-April 2017. The 2% Xylocaine-MPF with epinephrine (1:200,000) 10 mL vials are on back order and the company estimates a release date of mid-April 2017. The 2% Xylocaine-MPF with epinephrine (1:200,000) 20 mL vials in sterile packs are on back order and the company estimates a release date of mid-April 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=860>

### Ethiodized Oil

**March 13, 2017**

#### Reason for the Shortage

- Guerbet states their Lipiodol product is in short supply due to manufacturing problems at Jubliant HollisterStier, the manufacturing site in Canada that supplies Lipiodol for Guerbet. The company estimates the shortage will last at least one year

#### Estimated Resupply Dates

- Guerbet is shipping supplies of Lipiodol Ultra-Fluide.<sup>2</sup> Lipiodol Ultra-Fluide is not FDA approved. In order to prevent a drug shortage, FDA is allowing Guerbet to import Lipiodol Ultra-Fluide, a product manufactured for Guerbet in France by Delpharm Tours.
- Customers must order Lipiodol Ultra-Fluide directly from Guerbet by calling 1-877-729-6679. Lipiodol Ultra-Fluide is non-refundable and may not be resold

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=618>

### Labetalol Injection

**March 13, 2017**

#### Reason for the Shortage

- Akorn has labetalol injection on shortage due to increased demand.<sup>1</sup>
- Pfizer has labetalol injection on shortage due to manufacturing delays

#### Estimated Resupply Dates

- Akorn has labetalol 5 mg/mL 20 mL and 40 mL vials on back order and the company cannot estimate a release date.
- Pfizer has labetalol 5 mg/mL 20 mL and 40 mL vials on back order and the company estimates a release date of March 2017 for the 20 mL vials and early-April 2017 for the 40 mL vials.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=397>

## Octreotide Injection

March 13, 2017

### Reason for the Shortage

- Fresenius Kabi did not provide a reason for the shortage.
- Sagent has octreotide on shortage due to manufacturing delays.
- Teva is relaunching several presentations this year.
- Sun Pharma will not provide availability information at this time

### Estimated Resupply Dates

- Fresenius Kabi has octreotide 50 mcg/mL 1 mL vials on back order and the company estimates a release date of 4th quarter 2017.
- Sagent has octreotide 100 mcg/mL 1 mL vials, 200 mcg/mL 5 mL vials, and 500 mcg/mL 1 mL on back order and the company estimates a release date of March 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=803>

## Piperacillin Tazobactam Injection

March 13, 2017

### Reason for the Shortage

- Apotex has piperacillin/tazobactam on shortage due to regulatory delays.
- AuroMedics and Sandoz could not provide a reason for the shortage.
- Baxter has Zosyn frozen premixes on allocation due to increased demand.
- Fresenius Kabi has piperacillin/tazobactam on shortage due to increased demand.
- Mylan Institutional launched piperacillin/tazobactam 3.375 gram and 4.5 gram vials in early-June 2016.
- Pfizer has Zosyn on shortage due to manufacturing delays.
- Sagent has piperacillin/tazobactam on shortage due to increased demand.
- Sandoz has piperacillin/tazobactam available for contracted customers.
- WG Critical Care states the reason for the shortage is increased demand.
- FDA in conjunction with SteriMax is allowing temporary importation of piperacillin/tazobactam 3.375 gram, 4.5 gram, and 40.5 gram vials from Canada. This will be distributed through X-Gen Pharmaceuticals. The product codes on these items will not be recognized by U.S. systems so institutions will need to implement alternative plans to assure the dose is being given correctly.
- X-Gen recently launched piperacillin/tazobactam injection.

### Estimated Resupply Dates

- Apotex has piperacillin/tazobactam 2.25 gram, 3.375 gram, 4.5 gram, and 40.5 gram vials on back order and the company estimates a release date of late-June 2017.
- AuroMedics has piperacillin/tazobactam on intermittent back order and the company is releasing product as it becomes available. Check wholesalers for inventory.
- Baxter has all frozen piperacillin/tazobactam presentations available in limited supply.
- Fresenius Kabi has piperacillin/tazobactam 2.25 gram, 3.375 gram, 4.5 gram, and 40.5 gram vials on intermittent back order and the company is releasing product as it becomes available.
- Pfizer has piperacillin/tazobactam 3.375 gram and 40.5 gram vials available in limited supply. The 2.25 gram and 4.5 gram ADD-Vantage vials are available in limited supply. The 3.375 gram ADD-Vantage vials are on back order and the company estimates a release date of late-April 2017.

- Pfizer has Zosyn 2.25 gram vials, 3.375 gram vials, 4.5 gram vials, and 40.5 gram vials on back order and the company estimates a release date of January 2018.
- Sandoz has piperacillin/tazobactam 2.25 gram (NDC 00781-3344-95), 3.375 gram (NDC 00781-3350-95), and 4.5 gram (NDC 00781-3367-95) vials on back order and the company estimates a release date of mid-March 2017.
- WG Critical Care has piperacillin/tazobactam 2.25 gram, 3.375 gram, 4.5 gram, and 40.5 gram vials on back order and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1075>

### Potassium Chloride Injection

**March 13, 2017**

#### Reason for the Shortage

- Baxter has a consistent supply of potassium chloride injection.
- Fresenius Kabi has some potassium chloride injection available.
- Pfizer has potassium chloride injection on shortage due to increase demand and manufacturing delays

#### Estimated Resupply Dates

- Fresenius Kabi has potassium chloride 20 mEq/10 mL on back order and the company estimates a release date in mid-March 2017.
- Pfizer has potassium chloride 20 mEq/100 mL in sterile water, 20 mEq/1000 mL in 0.9% sodium chloride, 20 mEq/1000 mL in 5% dextrose and 0.9% sodium chloride, 40 mEq/1000 mL in 5% dextrose and 0.9% sodium chloride, and 20 mEq/1000 mL in 0.45% sodium chloride on back order and the company estimates a release date in mid-March 2017. Pfizer has potassium chloride 2 mEq/mL 250 mL vials and 10 mEq/500 mL in 5% dextrose and 0.225% sodium chloride on back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=696>

### Sodium Bicarbonate Injection

**March 13, 2017**

#### Reason for the Shortage

- Amphastar has sodium bicarbonate injection on shortage due to manufacturing delays.
- Pfizer has sodium bicarbonate injection on shortage due to manufacturing delays

#### Estimated Resupply Dates

- Amphastar has 8.4 % sodium bicarbonate 50 mL syringes available in limited supply.
- Pfizer has 8.4 % sodium bicarbonate 10 mL syringes, 50 mL syringes, and 50 mL vials available in limited supply. The 7.5% 50 mL syringes are on back order and the company estimates a release date of mid-March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=788>

## Tetracaine Hydrochloride Ophthalmic Drops

March 13, 2017

### Reason for the Shortage

- Valeant and OCuSOFT did not provide a reason for the shortage.

### Estimated Resupply Dates

- OCuSOFT has Tetravisc 0.5% 5 mL bottles and 0.6 mL unit-dose containers in 12 count on back order and the company cannot estimate a release date.
- OCuSOFT has Tetravisc Forte 0.5% 5 mL bottles and 0.6 mL unit-dose containers in 12 count on back order and the company cannot estimate a release date.
- Valeant has tetracaine 0.5% 15 mL bottles on back order and the company estimates a release date of late-March 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1242>

## Acetylcysteine Oral and Inhalation Solution

March 13, 2017

### Reason for the Shortage

- American Regent has acetylcysteine oral and inhalation solution on shortage due to manufacturing delays.
- Fresenius Kabi states the reason for the shortage was shipping delays.
- Pfizer has acetylcysteine oral and inhalation solution 100 mg/ml vials on shortage due to manufacturing delays.
- Roxane Labs discontinued acetylcysteine oral and inhalation solution in April 2014.

### Estimated Resupply Dates

- American Regent has acetylcysteine solution 100 mg/mL 10 mL vials, and 200 mg/mL 4 mL, 10 mL, and 30 mL vials on back order and the company cannot estimate a release date.
- Pfizer has acetylcysteine solution 100 mg/mL 30 mL vials on back order and the company estimates a release date in 2nd quarter 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=932>

## Carboplatin Solution for Injection

March 13, 2017

### Reason for the Shortage

- Bedford discontinued carboplatin in May, 2011 to concentrate on the manufacturing of other products.
- Fresenius Kabi has carboplatin on shortage due to increased demand for the product.
- Mylan Institutional cannot provide a reason for the shortage.
- Pfizer has carboplatin injection available.
- Sagent states the reason for the shortage is increased demand for the product.
- Sandoz has discontinued carboplatin injection.
- Teva states the reason for the shortage is increased demand for the product

### Estimated Resupply Dates

- Fresenius Kabi has carboplatin 45 mL vials available with an expiration date of <5 months.

- Mylan Institutional has all carboplatin injection on back order and the company cannot estimate a release date.
- Sagent has carboplatin 5 mL, 15 mL, 45 mL, and 60 mL vials on back order and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1005>

### Cefoxitin Sodium Injection

**March 13, 2017**

#### Reason for the Shortage

- Fresenius Kabi and West-Ward did not provide a reason for the shortage.
- Sagent has cefoxitin on shortage due to manufacturing delays.
- BBraun has cefoxitin on allocation due to increased demand

#### Estimated Resupply Dates

- BBraun has cefoxitin 2 gram premixes on back order and the company cannot estimate release date. Check wholesalers for inventory.
- Fresenius Kabi has cefoxitin 1 gram vials on back order and the company estimates a release date of early-June 2017.
- Sagent has cefoxitin 2 gram vials on back order and the company estimates a release date of March 2017. Sagent has cefoxitin 10 gram vials on back order and the company estimates a release date of April 2017.
- West-Ward has cefoxitin 1 gram, 2 gram, and 10 gram vials on back order and the company estimates a release date of April or May 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1256>

### Dexamethasone Sodium Phosphate

**March 13, 2017**

#### Reason for the Shortage

- American Regent has dexamethasone sodium phosphate on shortage due to manufacturing delays.
- AuroMedics had dexamethasone sodium phosphate on intermittent back order.
- Fresenius Kabi has dexamethasone sodium phosphate presentations available.
- West-Ward did not provide a reason for the shortage.
- Mylan Institutional has dexamethasone sodium phosphate available

#### Estimated Resupply Dates

- American Regent has dexamethasone sodium phosphate 4 mg/mL products on back order and the company cannot estimate a release date.
- AuroMedics has dexamethasone sodium phosphate 4 mg/mL 30 mL vials available in limited supply.
- West-Ward has dexamethasone sodium phosphate 10 mg/mL 1 mL vials on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=751>

## Cefuroxime Sodium Injection

**March 14, 2017**

### Reason for the Shortage

- Teligent has Zinacef on shortage due to increased demand.
- West-Ward did not provide a reason for the cefuroxime injection shortage.

### Estimated Resupply Dates

- Sagent has cefuroxime 7.5 gram vials on back order and the company cannot estimate a release date.
- Teligent has Zinacef 1.5 gram vials on back order and the company estimates a release date of May 2017. The 7.5 gram vials are on long-term back order and the company cannot estimate a release date.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=990>

## Diltiazem Injection

**March 14, 2017**

### Reason for the Shortage

- Akorn states the reason for the shortage is increased demand due to market conditions.
- Pfizer states the reasons for the shortage was manufacturing delays and increases in demand.
- West-Ward has diltiazem injection on shortage due to manufacturing delays caused by increased demand due to current market conditions.

### Estimated Resupply Dates

- Akorn has diltiazem 5 mg/mL 10 mL vials and 25 mL vials in 10 count available in limited supply. The 5 mL vials and 25 mL vials in single count are available with both regular and short expiration dating.
- West-Ward has diltiazem 5 mg/mL 5 mL vials on a weekly allocation

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=217>

## etomidate Injection

**March 14, 2017**

### Reason for the Shortage

- Ben Venue stopped production in its plant in Bedford, Ohio and closed in July 2014.
- Pfizer has Amidate on shortage due to manufacturing delays. Pfizer discontinued etomidate ampules in October 2016.
- Mylan cannot provide a reason for the current back order.
- Par Sterile Products discontinued etomidate in early 2015.
- Sagent is no longer marketing etomidate.
- Zydus has etomidate on shortage due to an increase in demand

### Estimated Resupply Dates

- Pfizer has Amidate 20 mL LifeShield syringes on back order and the company cannot estimate a release date.
- West-Ward has etomidate 2 mg/mL 20 mL vials available with expiration date of December 2017.



- Zydus has etomidate 2 mg/mL 10 mL and 20 mL vials on back order and the company estimates a release date of mid-March 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=419>

### Levetiracetam Injection

**March 14, 2017**

#### Reason for the Shortage

- American Regent has product available.
- AuroMedics did not provide a reason for the shortage.
- Caraco will not provide availability information on levetiracetam.
- Fresenius Kabi had levetiracetam injection on shortage due to manufacturing delays.
- Mylan has product available.
- Pfizer has product available.
- Sagent has product available.
- UCB has product available.
- West-Ward has product available.
- X-Gen has product available

#### Estimated Resupply Dates

- AuroMedics has levetiracetam 100 mg/mL 5 mL vials on intermittent back order

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1183>

### Lidocaine Injection

**March 14, 2017**

#### Reason for the Shortage

- Amphastar had lidocaine 2% emergency syringes on shortage due to increase demand for the product.
- AuroMedics introduced lidocaine injection in February 2014.
- Fresenius Kabi had generic lidocaine presentations on shortage due to a supply interruption of raw ingredients.
- Pfizer has lidocaine presentations on shortage due to manufacturing delays.

#### Estimated Resupply Dates

- AuroMedics has 1% lidocaine 2 mL and 30 mL vials on intermittent back order and the company is releasing product as it becomes available. AuroMedics has 2% lidocaine 2 mL and 5 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has 1% Xylocaine 50 mL vials on back order and the company estimates a release date of late-March 2017. The 1% Xylocaine-MPF 5 mL vials are on back order and the company estimates a release date of late-March 2017. The 2% Xylocaine-MPF 10 mL ampules are on back order and the company estimates a release date of late-March 2017.
- Pfizer has 2% lidocaine 5 mL vials available in limited supply

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=859>

### Theophylline Extended-Release Tablets

March 14, 2017

#### Reason for the Shortage

- Major has discontinued theophylline extended-release tablets.
- Teva cannot provide a reason for the shortage

#### Estimated Resupply Dates

- Teva has theophylline extended-release tablets temporarily unavailable and the company cannot estimate a release date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1221>

### Bleomycin Sulfate Injection

March 14, 2017

#### Reason for the Shortage

- Fresenius Kabi has bleomycin on back order due to shortage of active pharmaceutical ingredient.
- Pfizer has bleomycin available.
- Teva has bleomycin available.
- FDA is allowing temporary importation of bleomycin sulfate powder for injection 15,000 IU (15 units bleomycin sulfate USP). These vials were manufactured for Amneal Australia. The labeling and bar coding for the imported product is different from the US version. The imported product should be used in the same way as the US product. FDA Dear Healthcare Professional letter. The product should be available to order through major wholesalers

#### Estimated Resupply Dates

- Fresenius Kabi has bleomycin 15 unit and 30 unit vials on back order and the company estimates a release date of 2nd quarter 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1233>

### Ceftriaxone Sodium Injection

March 14, 2017

#### Reason for the Shortage

- Fresenius Kabi states the reason for the shortage is increased demand.
- Pfizer states the reason for the shortage was manufacturing delay.
- Sagent states the reason for the shortage is manufacturing delay.
- Sandoz cannot provide a reason for the shortage.
- WG Critical Care states the reason for the shortage is increased demand

#### Estimated Resupply Dates

- Apotex has ceftriaxone 2 gram vials on back order and the company estimates a release date of late-March to early-April 2017.
- Fresenius Kabi has ceftriaxone 2 gram vials on back order and the company estimates a released date of 2nd quarter 2017. The 500 mg vials are on back order and the company cannot estimate a release date. The 1 gram vials are available with an expiration date of <6 months.
- Pfizer has ceftriaxone 1 gram and 2 gram ADD-Vantage vials available in limited supply.

- Lupin has all ceftriaxone presentations on allocation.
- Sagent has ceftriaxone 1 gram vials on allocation.
- Sandoz has ceftriaxone 10 gram vials on back order and the company estimates a release date of late-March 2017.
- WG Critical Care has ceftriaxone 2 gram vials on back order and the company estimates a release date of late-March 2017. The 10 gram vials are on back order and the company cannot estimate a release date.
- West-Ward has ceftriaxone 250 mg vials on back order and the company cannot estimate a release date. The 1 gram and 2 gram vials are on back order and the company estimates a release date of March 2017 for the 1 gram vials and March to April 2017 for the 2 gram vials.
- Wockhardt has ceftriaxone 250 mg, 500 mg, 1 gram, and 2 gram vials on back order and the company estimates a release date of late-April to early-May 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1101>

### Lorazepam injectable presentations

**March 15, 2017**

#### Reason for the Shortage

- Bedford discontinued lorazepam injection in May, 2011.
- West-Ward has product on shortage due to manufacturing delays.
- Pfizer has product on shortage due to increased demand and manufacturing delays.
- Akorn has not provided a reason for the shortage.
- Amphastar has product available

#### Estimated Resupply Dates

- Akorn has lorazepam 2 mg/mL 1 mL vials on intermittent back order and is releasing product as it becomes available.
- Pfizer has lorazepam 2 mg/mL 1 mL vials and 1 mL Carpuject syringes available in limited supply.
- West-Ward has lorazepam 2 mg/mL 1 mL vials on a weekly allocation. The 4 mg/mL 10 mL vials are on back order and the company estimates a release date of mid- to late-March 2017.
- West-Ward has Ativan 2 mg/mL 1 mL vials on back order and the company estimates a release date of late-March to mid-April 2017. The 4 mg/mL 10 mL vials are available with an expiration date of February 2018

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=747>

### Hydroxyamphetamine Hydrobromide and Tropicamide Ophthalmic Solution

**March 17, 2017**

#### Reason for the Shortage

- Akorn has Paremyd on shortage due to manufacturing delays.
- No clinical trial data were found to support the use of Paremyd in the diagnosis of Horner Syndrome.

#### Estimated Resupply Dates

- Akorn has Paremyd ophthalmic solution on back order and the company estimates a release date of mid-April 2017

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1193>

### Leucovorin Calcium Injection

**March 17, 2017**

#### Reason for the Shortage

- Fresenius Kabi has leucovorin on shortage due to increase demand.
- Teva had leucovorin on allocation due to increased demand.
- West-Ward has leucovorin available.
- Sagent has leucovorin on shortage due to manufacturing delay

#### Estimated Resupply Dates

- Fresenius Kabi has leucovorin 500 mg vials on back order and the company estimates a release date of early-April 2017.
- Sagent has leucovorin 50 mg vials on allocation.
- West-Ward has leucovorin 350 mg vials on allocation.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=488>

### Gadoteridol Injection

**March 20, 2017**

#### Reason for the Shortage

- Bracco diagnostics could not provide a reason for the shortage.

#### Estimated Resupply Dates

- Bracco diagnostics has ProHance 17 mL prefilled syringes on back order and the company estimates a release date in mid-April 2017.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1237>

### Ioversol Injection

**March 20, 2017**

#### Reason for the Shortage

- Guerbet could not provide a reason for the Optiray shortage.

#### Estimated Resupply Dates

- Guerbet had most Optiray products on allocation. However, the company did not provide updated availability information.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1253>

### Rabies Vaccine

**March 20, 2017**

#### Reason for the Shortage

- GlaxoSmithKline Vaccines could not provide a reason for the RabAvert shortage

#### Estimated Resupply Dates

- GlaxoSmithKline Vaccines has RabAvert on back order and the company estimates a release date in March 2017. Emergency stock is available if a patient has been exposed.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=959>

## Topotecan Capsules

**March 20, 2017**

### Reason for the Shortage

- Novartis did not provide a reason for the current shortage.

### Estimated Resupply Dates

- Novartis has Hycamtin 0.25 mg capsules available with an expiration date of December 2017. Hycamtin 1 mg capsules are on back order and the company cannot estimate a resupply date

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1266>

## Dextrose 5% Injection Large Volume Bags

**March 21, 2017**

### Reason for the Shortage

- Pfizer states the shortage is due to increased demand and manufacturing delays.
- Baxter did not provide a reason for the shortage.
- 5% dextrose 1,000-mL bags are not affected at this time.

### Estimated Resupply Dates

- Pfizer states the shortage is due to increased demand and manufacturing delays.
- Baxter did not provide a reason for the shortage.
- 5% dextrose 1,000-mL bags are not affected at this time.

<https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1081>