



December 2017
Drug Information Update

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NEWLY AVAILABLE GENERICS

GENERIC DRUG NAME	STRENGTH & DOSAGE FORM	GENERIC MANUFACTURER	BRAND NAME
TIMOLOL MALEATE	0.5% DROP	APOTEX CORP	ISTALOL
LIDOCAINE HCL GEL PUMP	4% GEL W/PUMP	ALL PHARMA, LLC	ASTERO
SILDENAFIL CITRATE	25 MG TABLET	TEVA USA	VIAGRA
SILDENAFIL CITRATE	50MG TABLET	TEVA USA	VIAGRA
SILDENAFIL CITRATE	100MG TABLET	TEVA USA	VIAGRA
SALICYLIC ACID	10% CREAM	MESORA PHARMA	SALIMEZ FORTE
KETOROLAC TROMETHAMINE	60MG/2ML CARTRIDGE	HOSPIRA	KETOROLAC TROMETHAMINE
TRIAMCINOLONE ACETONIDE	40MG/ML VIAL	AMNEAL BIOSCIENCES	KENALOG-40
DACTINOMYCIN	0.5MG VIAL	PRASCO LABS	COSMEGEN

NEW DRUG ENTITIES/COMBINATIONS/STRENGTHS

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
PANCREATIC ENZYMES	ZENPEP	LIPASE/ PROTEASE/AMYLASE	20,000 unit- 63,000 unit- 84,000 unit	New Strength
ANTIEMETIC/ANTIVERTIGO AGENTS	CINVANTI	APREPITANT	130 mg/18 mL (7.2 mg/mL)	New Strength And Route
HEPARIN AND RELATED PREPARATIONS	HEPARIN SODIUM- 0.9% NACL	HEPARIN SOD,PORCINE/0.9% NACL	5,000 unit/5 mL (1,000 unit/mL)	New Strength and Route, no pricing available, claims will not process till pricing is provided.
HEPARIN AND RELATED PREPARATIONS	HEPARIN SODIUM- 0.45% NACL	HEPARIN,PORK IN 0.45% NACL/PF	10 unit/10 mL (1 unit/mL)	New Strength and Route, no pricing available, claims will not process till pricing is provided.
HEPARIN AND RELATED PREPARATIONS	HEPARIN SODIUM- 0.45% NACL	HEPARIN,PORK IN 0.45% NACL/PF	2.5 unit/10 mL (0.25 unit/mL)	New Strength and Route, no pricing available, claims will not process till pricing is provided.
MIOTICS AND OTHER INTRAOCULAR PRESSURE REDUCERS	VYZULTA	LATANOPROSTENE BUNOD	0.02%	New Entity
ANTIRETROVIRALINTEGRASE INHIBITOR AND NNRTI COMB.	JULUCA	DOLUTEGRAVIR/ RILPIVIRINE	50 mg-25mg	New Entity
ANTIVIRALS, GENERAL	PREVYMIS	LETERMOVIR	240 mg	New Entity
ANTIVIRALS, GENERAL	PREVYMIS	LETERMOVIR	480 mg	New Entity
ANTIVIRALS, GENERAL	PREVYMIS	LETERMOVIR	240 mg/12 mL	New Entity
ANTIVIRALS, GENERAL	PREVYMIS	LETERMOVIR	480 mg/24 mL	New Entity
METABOLIC DX ENZYME REPLACE, MUCOPOLYSACCHARIDOSIS	MEPSEVII	VESTRONIDASE ALFA-VJBK	10 mg/5 mL (2 mg/mL)	New Entity
ANTIHYPERGLY, INCRETIN MIMETIC (GLP- 1 RECEP.AGONIST)	OZEMPIC	SEMAGLUTIDE	0.25 mg/0.2 mL (2 mg/1.5 mL)	New Entity
ANTIHYPERGLY, INCRETIN MIMETIC(GLP-1 RECEP.AGONIST)	OZEMPIC	SEMAGLUTIDE	1 mg/0.75 mL (2 mg/1.5 mL)	New Entity
PANCREATIC ENZYMES	ZENPEP	LIPASE/PROTEASE/AMYLASE	40,000 unit- 126,000 unit- 168,000 unit	New Strength
ANTINEOPLASTIC SYSTEMIC ENZYME INHIBITORS	BOSULIF	BOSUTINIB	400 mg	New Strength
VANCOMYCIN AND DERIVATIVES	VANCOMYCIN HCL- DSW	VANCOMYCIN HCL IN DEXTROSE 5%	1.75 gram/500 mL	New Strength
PANCREATIC ENZYMES	ZENPEP	LIPASE/PROTEASE/AMYLASE	40,000 unit- 126,000 unit- 168,000 unit	New Strength
PULMONARY ANTI-HTN, ENDOTHELIN RECEPTOR ANTAGONIST	TRACLEER	BOSENTAN	32 mg	New Strength and Dosage Form

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
VITAMIN A DERIVATIVES	RETIN-A MICRO PUMP	TRETINOIN	0.06%	New Strength
INTERLEUKIN-5(IL-5) RECEPTOR ALPHA ANTAGONIST, MAB	FASENRA	BENRALIZUMAB	30 mg/mL	New Entity
HISTAMINE H2-RECEPTOR INHIBITORS	FAMOTIDINE	FAMOTIDINE	20 mg/2 mL	New Dosage Form, no pricing available, claims will not process till pricing is provided.
ANTINEOPLASTICS,MISCELLANEOUS	TRISENOX	ARSENIC TRIOXIDE	12 mg/6 mL (2 mg/mL)	New Strength and Dosage Form
VANCOMYCIN AND DERIVATIVES	VANCOMYCIN HCL-0.9% NACL	VANCOMYCIN/0.9 % SOD CHLORIDE	1.5 gram/300 mL	New Strength
VIRAL/TUMORIGENIC VACCINES	HEPLISAV-B	HEPATITIS B VACCINE/CPG1018/PF	20 mcg/0.5 mL	New Entity
ALLERGENIC EXTRACTS, THERAPEUTIC	ODACTRA	MITE,D.FARINAE-D.PTERONYSSINUS	12 standardized quality-house dust mite	New Strength, Dosage Form and Route

NEW INDICATIONS (EXISTING DRUGS)

SUTENT®

November 16, 2017

NEW YORK--(BUSINESS WIRE)--Pfizer Inc. (NYSE:PFE) today announced that the U.S. Food and Drug Administration has approved a new indication expanding the use of SUTENT® (sunitinib malate) to include the adjuvant treatment of adult patients at high risk of recurrent renal cell carcinoma (RCC) following nephrectomy (surgical removal of the cancerous kidney). The approval was based on results from the S-TRAC trial that demonstrated a significant reduction in the risk of a disease-free survival (DFS) event (defined as the interval between randomization and tumor recurrence, or secondary primary cancer or death from any cause) for patients at high risk of RCC recurrence who received SUTENT compared to placebo in the adjuvant setting.

Source: Pfizer Inc.

Gazyva®

November 16, 2017

Genentech, a member of the Roche Group (SIX: RO, ROG; OTCQX: RHHBY), announced today that the U.S. Food and Drug Administration (FDA) approved Gazyva® (obinutuzumab) in combination with chemotherapy, followed by Gazyva alone in those who responded, for people with previously untreated advanced follicular lymphoma (stage II bulky, III or IV). The approval is based on results from the Phase III GALLIUM study, which showed superior progression-free survival (PFS) for patients who received this Gazyva-based regimen compared with those who received a Rituxan® (rituximab)-based regimen as an initial (first-line) therapy. Follicular lymphoma, the most common slow-growing (indolent) form of non-Hodgkin's lymphoma (NHL), is incurable and becomes harder to treat each time it returns.

Source: Genentech

Nucala®

December 12, 2017

GlaxoSmithKline plc (LSE/NYSE: GSK) today announced that the US Food and Drug Administration (FDA) has approved Nucala (mepolizumab) as the first targeted treatment for eosinophilic granulomatosis with polyangiitis (EGPA), previously known as Churg-Strauss syndrome. GSK submitted a supplemental Biologics License Application (sBLA) for mepolizumab, an interleukin-5 (IL-5) antagonist, in June 2017.

Source: GlaxoSmithKline plc

Taltz®

December 1, 2017

INDIANAPOLIS, Dec. 1, 2017 /PRNewswire/ -- Eli Lilly and Company (NYSE: LLY) announced today that the U.S. Food and Drug Administration (FDA) has approved Taltz® (ixekizumab) injection 80 mg/mL for the treatment of adults with active psoriatic arthritis (PsA).¹ Taltz was first approved by the FDA in March 2016 for the treatment of adult patients with moderate-to-severe plaque psoriasis who are candidates for systemic therapy or phototherapy.

Source: Eli Lilly and Company

FDA NEWS/BULLETINS/ADVISORIES/SAFETY ALERTS

Diphenoxylate Hydrochloride and Atropine Sulfate Tablets by Greenstone: Recall - Possible Sub Potent and Super Potent Tablets

[Posted 11/17/2017]

ISSUE: Greenstone, a wholly owned subsidiary of Pfizer Inc., is voluntarily recalling multiple lots of diphenoxylate hydrochloride and atropine sulfate tablets, USP to the consumer level. Greenstone initiated this recall because product from these lots has the potential to be super potent or sub potent. Products were distributed nationwide to wholesalers/retailers from November 2016 through June 2017 in the United States. See the recall notice for affected lot numbers. The use of this product in patients with uncontrolled diarrhea due to chronic medical conditions may predispose the patient to toxicity from either the diphenoxylate or atropine components. The product label states that over dosage can be life-threatening and symptoms may include opioid and/or anticholinergic effects including respiratory depression, coma, delirium, lethargy, dryness of the skin and mucous membranes, mydriasis or miosis, flushing, hyperthermia, tachycardia, hypotonia, tachypnea, toxic encephalopathy, seizures and incoherent speech. Respiratory depression has been reported up to 30 hours after ingestion and may recur despite an initial response to narcotic antagonists. The use of the impacted super potent product when used as labeled has a low probability of being associated with adverse events of limited severity such as lethargy, skin flush, and drowsiness. Serious adverse events such as coma and respiratory depression are improbable. If a patient was to receive a sub potent tablet, symptoms may not be controlled. To date, there have been no reports of adverse events related to this recall.

BACKGROUND: Diphenoxylate hydrochloride and atropine sulfate tablets are indicated as adjunctive therapy in the management of diarrhea in patients 13 years of age and older.

RECOMMENDATION: Distributors or retailers with an existing inventory of the lots, which are being recalled, should stop use and distribution and quarantine immediately. If you have further distributed the recalled product, to the wholesale or retail level, please notify any accounts or additional locations which may have received the recalled product from you. For retailers that have dispensed product to consumer customers, please notify these customers regarding the recall. For additional assistance, call Stericycle at 1-855-215-4982 between the hours of 8 a.m. to 5 p.m. ET, Monday through Friday. Consumers should contact their healthcare provider if they have experienced any problems that may be related to taking or using this drug product. Healthcare professionals and patients are encouraged to report adverse events or side effects related to the use of these products to the FDA's MedWatch Safety Information and Adverse Event Reporting Program:

- Complete and submit the report Online: www.fda.gov/MedWatch/report
- Download form or call 1-800-332-1088 to request a reporting form, then complete and return to the address on the pre-addressed form, or submit by fax to 1-800-FDA-0178

Source: U.S. Food and Drug Administration (FDA)

Riomet (Metformin Hydrochloride Oral Solution): Recall - Microbial Contamination

[Posted 11/27/2017]

ISSUE: Sun Pharmaceutical Industries is recalling two lots of Riomet (Metformin Hydrochloride Oral Solution), which were found to be contaminated with *Scopulariopsis brevicaulis*. Use of the affected Riomet potentially could result in a risk of infection, especially in the immunocompromised patient. The

most plausible portal of entry of *Scopulariopsis brevicaulis* is the respiratory tract, where it may cause pneumonia, sinusitis and disseminated infections. The affected Riomet includes product with NDC Code 10631-206-01 Lot A160031A, Exp.: 01/2018, and NDC 10631-206-02 Lot: A160031B, Exp.: 01/2018.

BACKGROUND: The contamination was discovered during sample preparation for the Antimicrobial Preservative Effectiveness Testing (AMPET) being performed as part of the 12 month stability study interval. Riomet (Metformin Hydrochloride Oral Solution) is indicated to treat type 2 diabetes mellitus in adult and children age 10 and above. Riomet is packaged in 118 mL (4 fl. oz.) and 473 mL (16 fl. oz.) bottles.

RECOMMENDATION: On April 18, 2017, SPII notified its wholesale customers through its 3rd party Recall Coordinator (Inmar Inc.) via FedEx standard overnight shipping and has arranged for the return via prepaid FedEx Ground shipping of all recalled products. Consumers that have Riomet (Metformin Hydrochloride Oral Solution) which has been recalled should stop using and return it to place of purchase, discard and/or contact their doctor. Consumers with questions regarding this recall can contact SPII by calling 1-800-406-7984, Monday through Friday between 8:00 am to 5:00 pm EST or emailing drug.safetyUSA@sunpharma.com. Consumers should contact their physician or healthcare provider if they have experienced any problems that may be related to taking or using this drug product. Healthcare professionals and patients are encouraged to report adverse events or side effects related to the use of these products to the FDA's MedWatch Safety Information and Adverse Event Reporting Program:

- Complete and submit the report Online: www.fda.gov/MedWatch/report
- Download form or call 1-800-332-1088 to request a reporting form, then complete and return to the address on the pre-addressed form, or submit by fax to 1-800-FDA-0178

Source: U.S. Food and Drug Administration (FDA)

STUDIES AND RECENT TOPICS

FDA pushes companies to develop opioids that resist abuse

November 21, 2017

The Food and Drug Administration issued guidance Tuesday to push drugmakers to craft cheaper generic painkillers that are more difficult to snort, inject or otherwise abuse than standard opioids. FDA Commissioner Scott Gottlieb said it's part of his push to get doctors to look at drugs less susceptible to abuse, amid the growing opioid epidemic. His agency wants to promote alternatives to expensive name-brand pain relievers.

Source: washingtontimes.com

Congress faces growing health care crisis in Puerto Rico

November 19, 2017

Puerto Rico's Medicaid funding crisis is deepening, adding yet another issue for Congress to deal with in what is sure to be a hectic December. Hurricane Maria caused serious damage to Puerto Rico's health-care system, and none of the federal disaster relief money to date has been earmarked for the Medicaid program.

Source: thehill.com

WebMD and Reckitt Benckiser launch new cold and flu chatbot

November 27, 2017

This season, WebMD and Parsippany, N.J.-based Reckitt Benckiser are expanding their partnership with a new cold and flu chatbot designed to allow for more timely, targeted and personal connections with consumers.

Source: drugstorenews.com

Cost of pneumococcal vaccine keeps rising

November 26, 2017

Every November, like clockwork, she gets the same letter, said Lindsay Irvin, a pediatrician in San Antonio. It's from the drug company Pfizer Inc., and it informs her that the price tag for the pneumococcal vaccine Prevnar 13 is going up. Again.

Source: usatoday.com

HPV vaccine is effective, safe 10 years after it's given

November 29, 2017

A decade of data on hundreds of boys and girls who received the HPV vaccine indicates the vaccine is safe and effective long term in protecting against the most virulent strains of the virus, researchers report.

Source: eurekalert.org

UK gives Pfizer world's first over-the-counter Viagra approval

November 28, 2017

LONDON (Reuters) - Pfizer's big-selling erectile dysfunction drug Viagra has been given a green light for sale without a prescription in Britain, the first country to grant it over-the-counter status.

Source: reuters.com

Tens of thousands dying from \$30 billion fake drugs trade, WHO says November 28, 2017

LONDON (Reuters) - One in 10 drugs sold in developing countries is fake or substandard, leading to tens of thousands of deaths, many of them of African children given ineffective treatments for pneumonia and malaria, health officials said on Tuesday.

Source: reuters.com

FDA issues guidance that could make it easier for EpiPen rivals to come to market Nov 28, 2017

When the controversy over the price of the EpiPen exploded late last summer, many consumers asked why there was no substitutable generic version available. The answer was complex: while the key ingredient in the anaphylaxis treatment, epinephrine, has been available for decades and is no longer covered by a patent, the delivery device proved hard for generic competitors to copy to a degree that would satisfy regulators.

Source: cnbc.com

Tangled Incentives Push Drugmakers Away From an Opioid Solution November 24, 2017

For the drug industry, building a better pain pill is a problem. Pharmaceutical companies have introduced new medicines to treat dependence, reverse overdoses, and deal with opioids' side effects. But few effective and economically viable alternatives to addictive painkillers have emerged from the laboratory.

Source: bloomberg.com

Opioid crisis cost U.S. economy \$504 billion in 2015: White House November 21, 2017

Opioid drug abuse, which has ravaged parts of the United States in recent years, cost the economy as much as \$504 billion in 2015, White House economists said in a report made public on Sunday. The White House Council of Economic Advisers (CEA) said the toll from the opioid crisis represented 2.8 percent of gross domestic product that year.

Source: reuters.com

FDA Begins Adding Suffixes to Newly Approved Biologics' Names November 17, 2017

The US Food and Drug Administration (FDA) this week began adding four-letter meaningless suffixes at the end of newly approved biologics' nonproprietary names, signaling a shift in policy from only adding the suffixes to biosimilars' nonproprietary names since 2015.

Source: raps.org

Kids still get codeine after surgeries despite safety warnings

November 16, 2017

Even after warnings from doctors and drug regulators about the dangers of opioids for children, 1 in 20 kids still get codeine after two common childhood surgeries, a U.S. study suggests. Researchers examined records for almost 363,000 children who had tonsillectomies and adenoidectomies from 2010 to 2015. The U.S. Food and Drug Administration (FDA) issued a black box warning against use of codeine in kids because of the risk of overdoses and deaths.

Source: reuters.com

CMS Issues List of 32 Clinical Quality Measures for Consideration

December 06, 2017

CMS recently released a list of 32 clinical quality measures under consideration (MUC) as part of its Meaningful Measures initiative, which is designed to whittle down the number of quality measures to those most critical.

Source: ehrintelligence.com

Exclusive: U.S. health regulator Verma eyes new methods for drug pricing

November 30, 2017

NEW YORK (Reuters) - The U.S. government is considering setting new payment methods aimed at curbing costs for Medicare and Medicaid coverage of breakthrough medical treatments with very high prices, particularly novel gene-based therapies for cancer and other diseases, a top health official said on Thursday.

Source: reuters.com

U.S. Government Should Negotiate Drug Prices, Adviser Group Says

November 30, 2017

The U.S. government should use its heft to negotiate lower prescription drug prices, according to a group of independent experts who advise the nation on science and medicine. Congress should authorize the government to use its purchasing power to get better deals on drugs it buys through Medicare, the National Academies of Sciences, Engineering and Medicine said in a report Thursday. The group also suggested the U.S. discourage direct-to-consumer ads for prescription medications.

Source: bloomberg.com

FDA launches tool to improve management of antibiotic use

December 13, 2017

The FDA announced the launch of a new website that streamlines its approach to updating critical information regarding antibiotics and antifungal drugs, according to a press release.

Source: healio.com

FDA Warns Companies That Make Coco Loko and Legal Lean as Unapproved New Drugs

December 12, 2017

The FDA is warning makers and manufacturers of two products, Legal Lean Syrup, a drink, and Coco Loko, a “snortable” chocolate powder, for selling unapproved new drugs and misbranded drugs. These products are

promoted as alternatives to street drugs. The government has sent a warning letter to one company about this problem.

Source: foodpoisoningbulletin.com

Experts Tell Congress How To Cut Drug Prices. We Give You Some Odds.

December 12, 2017

The nation's most influential science advisory group was set to tell Congress on Tuesday that the U.S. pharmaceutical market is not sustainable and needs to change. "Drugs that are not affordable are of little value and drugs that do not exist are of no value," said Norman Augustine, chair of the National Academies of Sciences, Engineering and Medicine's committee on drug pricing and former CEO of Lockheed Martin Corp.

Source: khn.org

FDA Proposal Would Make Clear There's No Gluten in Your Pills

December 12, 2017

Avoiding gluten? Patients won't have to worry about whether it's in their prescription drugs, under a proposal from the U.S. Food and Drug Administration. In draft guidance issued on Tuesday, the agency is pushing drugmakers to clearly label that medications taken orally don't have ingredients from grains that include gluten like wheat, barley or rye.

Source: bloomberg.com

FDA proposes new fast path to market for certain medical devices

December 11, 2017

The U.S. Food and Drug Administration on Monday proposed creating a new fast track to market for certain medical devices and a potential reduction in the amount of safety data required for approval.

Source: reuters.com

Artificial Intelligence: will it change the way drugs are discovered?

December 7, 2017

The pharmaceutical industry is beginning to invest in artificial intelligence (AI), with many large pharmaceutical companies partnering with AI start-ups in 2017 in order to develop better diagnostics or biomarkers, to identify drug targets and to design new drugs. But when will the first AI-designed drugs reach the market and will AI permanently change the pharmaceutical industry and the way drugs are discovered?

Source: pharmaceutical-journal.com

Growth in retail drug spending freefalls along with hepatitis C drug costs, analysis says

December 6, 2017

Drug pricing has been under a microscope in recent years as policymakers, market watchers and others look to determine what's sending costs upward. But a new report says retail spending on pharmaceuticals grew at a much slower rate last year than in recent history.

Source: fiercepharma.com

Generic Viagra: Two versions of sildenafil hit the market today

December 11, 2017

In news that will delight men who've had difficulties in the bedroom, two generic versions of the erectile dysfunction drug Viagra are scheduled to hit the market Monday. One of the new generics is made by Teva Pharmaceuticals, and the other by Greenstone, a subsidiary of Pfizer, the company that manufactures Viagra.

Source: cbsnews.com

When Pharmacy Experts Take Medical Histories, Medication Errors Drop 80 Percent

December 4, 2017

When pharmacy professionals — rather than doctors or nurses — take medication histories of patients in emergency departments, mistakes in drug orders can be reduced by more than 80 percent, according to a recent paper.

Source: science20.com

More States Hatch Plans to Recycle Drugs Being Wasted in Nursing Homes

December 1, 2017

Inspired by a ProPublica story in April that described how nursing homes and their pharmacies nationwide throw away hundreds of tons of valuable medicines — and how one Iowa nonprofit successfully recycles them — two states are working to create similar programs.

Source: propublica.org

FDA says IV feeding products scarce as drug shortages pile up after hurricanes

December 1, 2017

Already scrambling to deal with a shortage of saline in the U.S., the FDA now says it is taking extraordinary measures to help get hospitals supplies of products needed to intravenously feed infants after production was disrupted by hurricane damage in Puerto Rico.

Source: fiercepharma.com

9 Biotechs Facing FDA Decisions in December

Nov 30, 2017

As 2017 comes to a close, the biopharma industry and the U.S. Food and Drug Administration (FDA) face a busy December. According to RTT News, 40 drugs have been approved so far, with the record being in 2015, when 46 drugs were approved. Nine companies are awaiting decisions in December.

Source: biospace.com

ER Radiologists Can Help Identify, Educate Patients with Opioid Addictions

November 30, 2017

Emergency radiologists see a high prevalence of patients with opioid-use disorders and are well-placed to educate patients about drug use and steer them towards hospital and community resources, according to a study presented at RSNA.

Source: diagnosticimaging.com

RECALLS

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	Pravastatin Sodium Tablets, USP, 40 mg, 30-count bottle, Rx only, Packaged for: International Laboratories, LLC. St. Petersburg, FL 33710, NDC 54458-925-16	I	Lot # 115698A, Exp 02/19	Labeling: Label mix-up, the product labeled as Pravastatin sodium tablets 40 mg was filled with Bupropion hydrochloride XL Tablets 300 mg.	International Laboratories, Inc. 2701 75th St N St Petersburg, FL 33710-2938
Drugs	RHINO 7 Platinum 5000, capsule, Proprietary Material: 750mg, 1-capsule packets, distributed by Fifty Shades Bayside, NY 11361, UPC 617135861224	I	All lots	Marketed without an Approved NDA/ANDA: undeclared Active Pharmaceutical Ingredients sildenafil, desmethyl carbodenafil and tadalafil.	Gadget Island, Inc 5889 Central Ave Newark, CA 94560-4465
Drugs	PapaZen 3300 capsule, Proprietary Blend 1800mg, 1-capsule packets, distributed by FX Power San Diego, CA 92108, UPC 718122032587	I	Lot# NSS050888, EX P 05-2018	Marketed without an Approved NDA/ANDA: undeclared Active Pharmaceutical Ingredients sildenafil, desmethyl carbodenafil and tadalafil.	Gadget Island, Inc 5889 Central Ave Newark, CA 94560-4465
Drugs	FIFTY SHADES 6000 capsule, Proprietary Raw Material 4550, 1-capsule packets, distributed by Express Pac Trading, UPC 4026666146056	I	All lots	Marketed without an Approved NDA/ANDA: undeclared Active Pharmaceutical Ingredients sildenafil, desmethyl carbodenafil and tadalafil.	Gadget Island, Inc 5889 Central Ave Newark, CA 94560-4465
Drugs	grande X 5800 capsule, (Maca Root 120 mg, Horny Goat Weed 120 mg, Guarana Seed 80 mg, Ginko Leaf 60 mg, Saw Palmetto 100 mg, Damiana Leaf 100 mg, Ginseng Root 80 mg, Tribulus Terrestris 90 mg, Tongkat Alo 100 mg, Rhodiola Rosea 60 mg, L-Arginine 90 mg), 1-capsulepackets, distributed by Grande X Ontario, CA 91745, UPC 640793555440	I	All lots	Marketed without an Approved NDA/ANDA: undeclared Active Pharmaceutical Ingredients sildenafil, desmethyl carbodenafil and tadalafil.	Gadget Island, Inc 5889 Central Ave Newark, CA 94560-4465
Drugs	Riomet (metformin hydrochloride) Oral Solution Cherry Flavored 500 mg /5 mL, 4 fl. oz. (NDC 10631-206-01) and 16 fl. oz. (NDC 10631-206-02) HDPE bottles, Rx only, Manufactured for: Ranbaxy Laboratories Inc. Jacksonville, FL 32257 USA, Distributed by: Sun Pharmaceutical Industries, Cranbury, NJ 08512	II	A lot # 160031A, A1 60031B; Exp. 11/17	Microbial Contamination of Non-Sterile Products	Sun Pharmaceutical Industries, Inc. 270 Prospect Plains Rd Cranbury, NJ 08512-3605

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	No.1 Faiza Beauty Cream Manufactured by: Poonia Brothers (Pak), Gujranwala, Distributed by NEW RELIANCE TRADING, INC., 5563 59th St., Maspeth, New York, 11378-2358, UPC 8993138993349, 5842109854239.	II	UPC 8993138993349, 5842109854239	Marketed Without an Approved NDA/ANDA	EW RELIANCE TRADING, INC. 5563 59th St Maspeth, NY 11378-2358
Drugs	Liothyronine Sodium Tablets, USP 25 mcg ,100-count bottles, Rx Only, Distributed by Perrigo Minneapolis, MN 55427, NDC 0574-0222-01	II	Lot: #:16F649, Exp: May 2018	Failed Dissolution Specifications	Mayne Pharma Inc 1240 Sugg Pkwy Greenville, NC 27834-9006
Drugs	Clozapine Tablets USP, 100 mg, 500 count bottles, Rx only, Manufactured in Israel by: TEVA PHARMACEUTICALS IND, LTD, Jerusalem Israel, Manufactured For: TEVA PHARMACEUTICALS USA, North Wales, PA, NDC 00093-7772-05	II	Lot # 39C192, exp 06/2019	Failed Tablet/Capsule Specifications; potential presence of broken tablets.	Teva Pharmaceuticals USA 1090 Horsham Rd North Wales, PA 19454-1505
Drugs	Vertra Elemental Resistance (Octyl Methoxycinnamate 6%, Oxybenzone 5%, Titanium Dioxide 6.3%, Zinc Oxide 9.9%) Sun Protection Cream, SPF 50+, Net. Wt. 2.8 oz (80 g) tube in a carton, Distributed by Vertra/EAI-JR286, 20100 S Vermont Ave, Torrance, CA 90502, Made In Australia, UPC 894140 00103 0.	II	Lot #: 609124, Exp 03/18 Manufacturing batches were mfg at Delta Laboratories under Batch Number 511103 11/16/2015 Batch Number 609124 09/21/2016	CGMP Deviations: products manufactured in a manner that may impact product quality that includes but is not limited to failed viscosity.	EAI-JR286 INC 20100 S Vermont Ave Torrance, CA 90502-1361
Drugs	Paroxetine Tablets USP, 30 mg, a) 30 count (NDC 68382-099-06), b) 500 count (NDC 68382-099-05), and c) 1000 count (NDC 68382-099-10) count bottles, Rx Only, Manufactured by: Cadila Healthcare Ltd, Ahmedabad, India Distributed by: Zydus Pharmaceuticals USA, Inc., Pennington, NJ 08534	II	a) Z701308, b) Z701309, c) Z701310 exp April 2019	Presence of Foreign Tablets/Capsules: Risperidone Tablets were found in bottle of Paroxetine Tablets	Zydus Pharmaceuticals USA Inc 73 Route 31 N Pennington, NJ 08534-3601
Drugs	TYVASO (treprostinil) Inhalation Solution Treprostinil 1.74 mg/2.9 mL (0.6 mg/mL) Tyvaso Inhalation System Starter Kit Model# TD-100/A, Rx Only, Manufactured by United Therapeutics Corporation Research Triangle Park, NC 27709, NDC# 6630220601	II	Lot #: 2101152; Exp. 12/11/2017 Lot #: 2101195; Exp. 04/26/2019	CGMP Deviations	United Therapeutics Corp. 55 Tw Alexander Dr Durham, NC 27709-0152

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	No. 1 Faiza Beauty Cream Manufactured by: Poonia Brothers (Pak), Gujranwala, Distributed by Shata Traders Inc., 4, 19th Street, Brooklyn, NY 11232. UPC 5842109854239	II	Batch # 16L63 Lot # 223190	Marketed Without an Approved NDA/ANDA	Shata Trading, Inc. 4 19th St Brooklyn, NY 11232-1012
Drugs	Extra Strength Naturally HL Bed Sore Relief Cream with Added Lidocaine, (lidocaine HCL 4%), 1/2 oz Balm(NDC 69804-008-06), 1 oz Balm (NDC 69804-008-05), 2 oz Balm(NDC 69804-008-02), and 4 oz Balm(NDC 69804-008-03), Manufactured by Pain Relief Naturally, www.Naturally HL.com	II	All batches and lots, exp 10/17/2018. Not all batches were as signed lot numbers	GMP Deviations: inadequate manufacturing control processes	Ridge Properties, LLC 4995 Ridge Dr NE Salem, OR 97301-7475
Drugs	Lorazepam Tablets, USP CIV, 0.5 mg, 500-count bottle, Rx Only, Manufactured by: Leading Pharma, LLC Fairfield, NJ 07004 NDC 69315-904-05	II	Lot #E00717	Labeling: Label Error on Declared Strength. Bottle labeled as 0.5 mg tablets contained 1mg tablets of lorazepam	Leading Pharma, LLC 3 Oak Rd Fairfield, NJ 07004-2903
Drugs	Paroxetine Tablets, USP, 30mg, 100 tablets (10 x 10) , Rx Only, Distributed by: American Health Packaging, Columbus, Ohio 43217. Columbus, Ohio 43217, NDC 68084-046-01	II	Lot 172291	Presence of Foreign Tablets/Capsules	Amerisource Health Services 2550 John Glenn Ave Ste A Columbus, OH 43217-1188
Drugs	Pravastatin Sodium USP, tablets, 40 mg, 90-count bottle, Rx only, Manufactured for: Lupin Pharmaceuticals, Inc., Baltimore, Maryland 21202, NDC 68180-487-09 Class II	II	Lot # G702459, Exp 2/20	Presence of foreign tablets/capsules: This product lot is being recalled due to a pharmacy complaint where one Duloxetine Delayed Release Capsule, 30mg was found in a Pravastatin Sodium Tablets USP, 40mg bottle.	Lupin Limited 15 - B I Phase 1a I D C Verna Industrial Road Vasco Da Gama
Drugs	Extra Strength PreTAT by TAT BALM Gel, (lidocaine HCL 4%), 1/2 oz Gel (NDC 69804-018-09), 1 oz Gel (NDC 69804-018-10) , 2 oz Gel (NDC 69804-018-11), and 4 oz Gel (NDC 69804-018-12) jars, Manufactured by Pain Relief Naturally, www.Naturally HL.com	II	All batches and lots, exp 10/17/2018. Not all batches were as signed lot numbers	GMP Deviations: inadequate manufacturing control processes	Ridge Properties, LLC 4995 Ridge Dr NE Salem, OR 97301-7475

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drugs	Extra Strength Naturally HL Hemorrhoid Numbing Spray with Lidocaine, (lidocaine HCL 4%), 1/2 oz Spray (NDC 69804-015-08), 1 oz Spray (NDC 69804-015-07), 2 oz Spray (NDC 69804-015-01) and 4 oz Spray (NDC 69804-015-04) bottles, Manufactured by Pain Relief Naturally, www.Naturally HL.com	II	All batches and lots, exp 10/17/2018. Not all batches were as signed lot numbers	GMP Deviations: inadequate manufacturing control processes	Ridge Properties, LLC 4995 Ridge Dr NE Salem, OR 97301-7475
Drugs	Extra Strength Naturally HL Liquid Hemorrhoid Relief Gel, (lidocaine HCL 4%), 1/2 oz Liquid Gel (NDC 69804-024-13), 1 oz Liquid Gel (NDC 69804-024-14), 2 oz Liquid Gel (NDC 69804-024-15), 4 oz Liquid Gel (NDC 69804-024-16) bottles, Manufactured by Pain Relief Naturally, www.Naturally HL.com	II	All batches and lots, exp 10/17/2018. Not all batches were as signed lot numbers	GMP Deviations: inadequate manufacturing control processes	Ridge Properties, LLC 4995 Ridge Dr NE Salem, OR 97301-7475
Drugs	Extra Strength Naturally HL Hemorrhoid Numbing with Lidocaine, (lidocaine HCL 4%), 1/2 oz Balm (NDC 69804-014-06), and 2 oz Balm (NDC 69804-014-03), Manufactured by Pain Relief Naturally, www.Naturally HL.com	II	All batches and lots, exp 10/17/2018. Not all batches were as signed lot numbers	GMP Deviations: inadequate manufacturing control processes	Ridge Properties, LLC 4995 Ridge Dr NE Salem, OR 97301-7475
Drugs	Dexamethasone Sodium Phosphate Injection, USP, 20 mg/5 mL (4 mg/mL), 5 mL Vials (NDC 0641-6146-01), packaged in 25 x 5 mL Vials per shelf pack (NDC 0641-6146-25), Rx Only, Manufactured by WEST-WARD, Eatontown, NJ 07724 USA.	III	Lot #: 106352, Exp 10/18	Failed Impurities/Degradation Specifications: high out of specification results for Dexamethasone adduct (related compound).	West-Ward Pharmaceuticals Corp. 401 Industrial Way West Eatontown, NJ 07724-2209
Drugs	Dexamethasone Sodium Phosphate Injection, USP, 4 mg/mL, 1 mL Vials (NDC 0641-6145-01), packaged in 25 x 1 mL Vials per shelf pack (NDC 0641-6145-25), Rx Only, Manufactured by WEST-WARD, Eatontown, NJ 07724 USA.	III	Lot #: 106390, 106393, 106395, Exp 10/18	Failed Impurities/Degradation Specifications: high out of specification results for Dexamethasone adduct (related compound).	West-Ward Pharmaceuticals Corp. 401 Industrial Way West Eatontown, NJ 07724-2209
Drugs	Duloxetine Delayed-Release Capsules USP, 30 mg, 30-count bottles, Rx Only, Manufactured for: Lupin Pharmaceuticals, Inc. Baltimore, Maryland 21202 United States, Manufactured by: Lupin Limited Goa 403 722 India, NDC 68180-295-06,	III	Lot #: G602051, Exp. 12/2017	Failed Dissolution Specification	Lupin Pharmaceuticals Inc. 111 S Calvert St Fl 21ST Baltimore, MD

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
	UPC 368180295068				21202-6174
Drugs	Isradapine Capsules USP 2.5 mg, 100-count bottles, Rx only, Manufactured by: Elite Laboratories, Inc. Northvale, NJ 07647, NDC 42806-263-01, UPC 342806263013	III	Lot #: P0910-017, Exp. 05/2019	Failed Impurities/Degradation Specifications	Elite Laboratories Inc. 165 Ludlow Ave Northvale, NJ 07647-2305
Drugs	Penicillin V Potassium for Oral Solution, USP, 125 mg (200,000 U) per 5 mL, 100 mL (when mixed) bottle, Rx only, Manufactured In Canada By: Teva Canada Limited, Toronto, Canada M1B 2K9; Manufactured For: Teva Pharmaceuticals USA, Inc., North Wales, PA 19454; NDC 0093-4125-73.	III	Lot # 35433115A, Exp 01/18	Failed Impurities/Degradation Specifications: high out of specification test results obtained for individual and total impurities.	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

Amino Acid Products

December 20, 2017

Reason for the Shortage

- Baxter has most amino acid products on allocation due to delays because of Hurricane Maria in Puerto Rico.
- BBraun has all amino acid on allocation due to increased demand.
- Pfizer has Aminosyn 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 has their amino acid products on allocation.
- BBraun has their amino acid products on allocation.
- Pfizer has all Aminosyn presentations on back order and the company cannot estimate a release date.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=671>

Amino Acid Products with Electrolytes in Dextrose with Calcium (Clinimix E)

December 20, 2017

Reason for the Shortage

- Baxter has all Clinimix E with electrolytes plus calcium presentations on allocation due to delays because of the hurricane in Puerto Rico.

Estimated Resupply Dates

- Baxter has all amino acid products with electrolytes plus calcium on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1024>

Amino Acids in Dextrose

December 20, 2017

Reason for the Shortage

- Baxter has all Clinimix presentations on allocation due to delays because of the hurricane in Puerto Rico.

Estimated Resupply Dates

- Baxter has all Clinimix presentations on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1290>

Sterile Water for Injection Large Volume Bags

December 20, 2017

Reason for the Shortage

- Baxter has sterile water for injection on shortage due to manufacturing delays.
- BBraun did not provide a reason for the shortage.
- ICU Medical has sterile water for injection on shortage due to increased demand.

Estimated Resupply Dates

- Baxter has sterile water for injection 1000 mL bags on back order and the company cannot estimate a release date. The 3000 mL bags are available in limited supply.

- BBraun has all sterile water for injection bags on allocation to current customers.
- ICU Medical has sterile water for injection 1000 mL bags on back order and the company estimates a release date of early-January 2018. The 2000 mL bags are available in limited supply
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1132>

Bupivacaine Injection

December 19, 2017

Reason for the Shortage

- AuroMedics has not provided a reason for the shortage.
- Fresenius Kabi had 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 30 mL preservative-free vials on intermittent back order and the company is releasing product as it becomes available. The 0.5% bupivacaine 10 mL and 30 mL preservative-free vials are on intermittent back order and the company is releasing product as it becomes available.
- Pfizer has 0.25% bupivacaine 10 mL preservative-free vials on back order and the company estimates a release date of January 2018. The 0.25% bupivacaine 30 mL preservative-free vials are on allocation. The 0.5% bupivacaine 30 mL preservative-free vials and 30 mL glass ampules are on back order and the company estimates a release date of early-January for the preservative-free vials and the company cannot estimate a release date for the glass ampules. The 0.5% bupivacaine 10 mL preservative-free vials are on back order and the company estimates a release date of April 2018.
- Pfizer has 0.25% Marcaine 10 mL and 30 mL preservative-free vials on back order and the company estimates a release date of 2nd quarter 2018. The 0.25% Marcaine 50 mL vials are on back order and the company estimates a release date in January 2018. The 0.5% Marcaine 10 mL and 30 mL preservative-free vials are on back order and the company estimates a release date of 2nd quarter 2018. The 0.5% Marcaine 50 mL vials are on back order and the company estimates a release date in January 2018. The 0.75% Marcaine 10 mL and 30 mL preservative-free vials are on back order and the company estimates a release date of 1st quarter 2018 for the 10 mL vials and September 2018 for the 30 mL vials.
- Fresenius Kabi has 0.5% Sensorcaine 10 mL preservative-free vials on back order and the company estimates a release date of early-January 2018. The 0.5% Sensorcaine 50 mL vials are on back order and the company estimates a release date of late-January to early-February 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=864>

Bupivacaine with epinephrine Injection

December 19, 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 30 mL vials on intermittent back order and the company is releasing product as it becomes available. The 0.25% Sensorcaine-MPF with epinephrine 10 mL vials are on back order and the company cannot estimate a release date. The 0.25% Sensorcaine with epinephrine 50 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 0.5% Sensorcaine-MPF with epinephrine 30 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 0.5% Sensorcaine-MPF with epinephrine 10 mL vials are on back order and the company cannot estimate a release date. The 0.5%

Sensorcaine-MPF with epinephrine 30 mL sterile packs are on back order and the company cannot estimate a release date. The 0.5% Sensorcaine with epinephrine 50 mL vials are on back order and the company cannot estimate a release date. The 0.75% Sensorcaine with epinephrine 30 mL vials are on back order and the company cannot estimate a release date.

- Pfizer has 0.25% bupivacaine with epinephrine 10 mL and 30 mL preservative-free vials on back order and the company estimates a release date of 1st quarter 2018. The 0.25% bupivacaine with epinephrine 50 mL vials are on back order and the company estimates a release date of 1st quarter 2018. 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 January 2018 for the 10 mL vials and early-January 2018 for the 30 mL vials. The 0.5% bupivacaine with epinephrine 50 mL vials are on back order and the company estimates a release date of 1st quarter 2018.
- Pfizer has 0.25% Marcaine with epinephrine 10 mL and 30 mL preservative-free vials on back order and the company estimates a release date of 3rd quarter 2018 . The 0.25% Marcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of 3rd quarter 2018 . The 0.5% Marcaine with epinephrine 10 mL and 30 mL preservative-free vials are on back order and the company estimates a release date of 3rd quarter 2018. The 0.5% Marcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of 3rd quarter 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=937>

Dextrose 25% Injection

December 19, 2017

Reason for the Shortage

- Pfizer has 25% dextrose injection on shortage due to manufacturing delays.

Estimated Resupply Dates

- Pfizer has 25% dextrose 10 mL Ansyf syringes on back order and the company estimates a release date of mid-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1011>

Dextrose 50% Injection

December 19, 2017

Reason for the Shortage

- Amphastar has 50% dextrose injection on shortage due to increased demand.
- Pfizer has 50% dextrose injection on shortage due to manufacturing delays.

Estimated Resupply Dates

- Amphastar has 50% dextrose 50 mL syringes on allocation and is regularly releasing product.
- Pfizer has 50% dextrose 50 mL LifeShield syringes available in limited supply. The 50% dextrose 50 mL vials and 50 mL Ansyf II syringes are on back order and the company estimates a release date of mid-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1012>

Metronidazole Hydrochloride Injection

December 19, 2017

Reason for the Shortage

- Pfizer has metronidazole injection on shortage due to manufacturing delay.
- Baxter, BBraun, and Claris did not provide a reason for the metronidazole injection shortage.

Estimated Resupply Dates

- Baxter has metronidazole 100 mL bags on available only through direct orders.
- BBraun has metronidazole 100 mL bags on back order and the company cannot estimate a release date.
- Claris has metronidazole 100 mL bags on long-term back order and the company cannot estimate a release date.
- Pfizer has metronidazole 100 mL bags in 24 count and 80 count on back order and the company estimates a release date of mid-January 2018 for the 24 count and early-January 2018 for the 80 count.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1272>

Potassium Phosphate Injection

December 18, 2017

Reason for the Shortage

- American Regent has not had potassium phosphate injection available since 2012. It is unclear if and when product will return to market.
- Fresenius Kabi had potassium phosphate injection on shortage due to increased demand.
- Pfizer has potassium phosphate injection on shortage due to manufacturing delays.

Estimated Resupply Dates

- Pfizer has potassium phosphate 3 mmol/mL 15 mL vials available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=709>

Acetylcysteine Oral and Inhalation Solution

December 18, 2017

Reason for the Shortage

- American Regent has acetylcysteine oral and inhalation solution on shortage due to manufacturing delays.
- Fresenius Kabi has acetylcysteine oral and inhalation solution available.
- Pfizer has acetylcysteine oral and inhalation solution 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 10 mL and 30 mL vials on back order and the company cannot estimate a release date. Acetylcysteine 100 mg/mL and 200 mg/mL 4 mL in 25 count is available in limited quantities.
- Fresenius Kabi has acetylcysteine solution 200 mg/mL 4 mL, 10 mL, and 30 mL vials on back order and the company estimates a release date of early-January 2018 for the 4 mL vials, late-December 2017 for the 10 mL vials and early- to mid-January 2018 for the 30 mL vials. The 100 mg/mL 4 mL, 10 mL, and 30 mL vials are on back order and the company estimates a release date of late-December 2017 for the 4 mL vials and early- to mid-January 2018 for the 10 mL and 30 mL vials.
- Pfizer has acetylcysteine solution 100 mg/mL 30 mL vials on back order and the company estimates a release date of mid-January 2018. The 200 mg/mL 30 mL vials are on back order and the company estimates a release date of early-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=932>

Potassium Phosphate Injection

December 18, 2017

Reason for the Shortage

- American Regent has not had potassium phosphate injection available since 2012. It is unclear if and when product will return to market.

- Fresenius Kabi had potassium phosphate injection on shortage due to increased demand.
- Pfizer has potassium phosphate injection on shortage due to manufacturing delays.

Estimated Resupply Dates

- Pfizer has potassium phosphate 3 mmol/mL 15 mL vials available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=709>

Potassium Chloride Injection

December 18, 2017

Reason for the Shortage

- Baxter has their highly concentrated potassium chloride in sterile water on shortage because a manufacturing facility has been affected by Hurricane Maria. Baxter has removed these products from distribution and they can be purchased directly if they are in stock. Baxter is also adjusting the allocation of these products. Baxter did not provide a reason for the shortage of their other potassium chloride products.
- Fresenius Kabi did not provide a reason for the shortage.
- Pfizer has potassium chloride injection on shortage due to increase demand and manufacturing delays.

Estimated Resupply Dates

- Baxter has all potassium chloride in sterile water presentations in sterile water on allocation.
- Fresenius Kabi has potassium chloride 2 mEq/mL 5 mL vials on back order and the company estimates a release date of mid- to late-December 2017.
- Pfizer has potassium chloride 10 mEq/5 mL vials on back order and the company estimates a release date of late-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=696>

Procainamide Hydrochloride Injection

December 18, 2017

Reason for the Shortage

- Pfizer did not provide a reason for the shortage.
- Nexus Pharmaceuticals launched procainamide injection in October 2017.

Estimated Resupply Dates

- Pfizer has procainamide 100 mg/mL 10 mL vials on back order and the company estimates a release date of late-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=868>

Penicillin G Procaine Injection

December 18, 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 Date

- 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 4th quarter 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1238>

Penicillin G Benzathine/Penicillin G Procaine

December 18, 2017

Reason for the Shortage

- Pfizer has Bicillin C-R on shortage due to manufacturing delays.

Estimated Resupply Date

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

Hydromorphone Hydrochloride Injection

December 18, 2017

Reason for the Shortage

- Pfizer did not provide a reason for the shortage.
- Purdue discontinued Dilaudid and Dilaudid HP in May 2017 for marketing reasons.
- Teva did not provide a reason for the shortage.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Date

- Akorn has hydromorphone 10mg/mL 1 mL ampule on back order and the company estimates a release date of late-December 2017.
- Fresenius Kabi has Dilaudid 0.5 mg/mL 0.5 mL syringes are on back order and the company estimates a release date of mid-to late-December 2017. The 1 mg/mL 1 mL syringes are on back order and the company estimates a release date of mid- to late-December 2017. The 2 mg/mL 1 mL syringes are on back order and the company estimates a release date of 1st quarter 2018. The 4mg/mL 1 mL syringes are on back order and the company cannot estimate a release date.
- Pfizer has hydromorphone 0.5 mg/0.5 mL 0.5 mL iSecure syringes, 1 mg/mL 1 mL ampules, and 2 mg/mL 1 mL vials on back order and the company estimates a release date of early-January 2018. The 1 mg/mL 1 mL iSecure syringes are on back order and the company estimates a release date of mid-February 2018. The 2mg/mL 1 mL vials are on back order and the company estimates a release date of January 2018. The 10 mg/mL 1 mL and 5 mL vials are on back order and the company estimates a release date of September 2018 for the 1 mL vials and early-January 2018 for the 5 mL vials. The 1 mg/mL 1 mL ampules, 2mg/mL 1 mL ampules, and 4mg/mL 1 mL ampules are on back order and the company cannot estimate a release date. The 2 mg/mL 1 mL Carpuject syringes are on back order and the company estimates a release date of late-January 2018. The 2 mg/mL 1 mL iSecure syringes and 4mg/mL 1 mL Carpuject syringes are on back order and the company estimates a release date of June 2019.
- Teva has hydromorphone 10 mg/mL 1 mL vials on intermittent back order and the company is allocating product upon release. The 10mg/mL 50 mL vials are on allocation.
- West-Ward has hydromorphone 2 mg/mL 1 mL vials on allocation. The 2 mg/mL 20 mL 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=856>

Cefotaxime Injection

November 10, 2017

Reason for the Shortage

- Hospira has discontinued Claforan. Sanofi-Aventis manufactured Claforan for Hospira and is no longer making the product.
- Baxter discontinued Claforan in late-2015.

- West-Ward has cefotaxime on shortage due to manufacturing and issues with raw material.

Estimated Resupply Date

- West-Ward has cefotaxime 500 mg, 1 gram, 2 gram, and 10 gram vials 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=826>

Bumetanide Injection

November 10, 2017

Reason for the Shortage

- Pfizer has bumetanide injection on shortage due to manufacturing delays.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Date

- Pfizer has bumetanide 0.25 mg/mL 4 mL and 10 mL vials on back order and the company estimates a release date of August 2018.
- West-Ward has bumetanide 0.25 mg/mL 4 mL and 10 mL vials on a weekly allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=674>

Aminocaproic Acid Injection

December 18, 2017

Reason for the Shortage

- Pfizer has aminocaproic acid 250 mg/mL 20 mL vials on back order and the company estimates a release date of late-November 2017.

Estimated Resupply Date

- Pfizer has aminocaproic acid 250 mg/mL 20 mL vials on back order and the company estimates a release date of December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=789>

Labetalol Injection

December 18, 2017

Reason for the Shortage

- Akorn has labetalol injection available.¹
- Alvogen has labetalol injection available.²
- Pfizer has labetalol injection on shortage due to manufacturing delays.³
- West-Ward has labetalol injection available.⁴

Estimated Resupply Date

- Pfizer has labetalol 5 mg/mL 4 mL syringes on back order and the company estimates a release date of early-January 2018.³
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=397>

Dopamine Hydrochloride Injection

December 18, 2017

Reason for the Shortage

- American Regent has dopamine on shortage due to manufacturing delays.

- Baxter has all dopamine presentations on shortage due to manufacturing delays.
- Pfizer states the shortage is due to manufacturing delays. The dopamine 200 mg/250 mL and 400 mg/500 mL premixed bags were discontinued in August 2017.

Estimated Resupply Date

- American Regent has all dopamine presentations on back order and the company cannot estimate a release date.
- Baxter has all dopamine premixed bags on allocation only through direct orders. Product is not available through wholesalers.
- Pfizer has dopamine 40 mg/mL 10 mL vials on back order and the company estimates a release date of 2018. The 400 mg/250 mL bags are on back order and the company estimates a release date of early-January 2018. The 800 mg/500 mL premixed bags are on back order and the company estimates a release date of mid-January 2018. The 800 mg/250 mL premixed bags are on back order and the company estimates a release date of January 2018. The 40 mg/mL 5 mL vials are on back order and the company estimates a release date of early-February 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1243>

Morphine Injections

December 18, 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.
- Pfizer anticipates a shortage of several prefilled syringe products, including morphine, starting in late-July 2017 due to issues at a manufacturing facility. To minimize the impact of the shortage, Pfizer is prioritizing production of certain morphine Carpuject syringes. Pfizer expects the shortage of prefilled syringe products to recover by late-first quarter 2018.
- 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 Date

- Fresenius Kabi has morphine 2 mg/mL 1 mL syringes and 4 mg/mL 1 mL syringes on intermittent back order and the company is releasing product as it becomes available. The morphine 5 mg/mL 1 mL syringes are on back order and the company estimates a release date of 1st quarter 2018. The morphine 8 mg/mL and 10 mg/mL 1 mL syringes are on back order and the company cannot estimate a release date.
- Pfizer has morphine 2 mg/mL 1 mL Carpuject syringes and 4 mg/mL 1 mL Carpuject syringes on back order and the company estimates a release date of late-December 2017. The 50 mg/mL 20 mL vials are on back order and the company estimates a release date of early-January 2018. The 50 mg/mL 50 mL vials are available in limited supply. The 25 mg/mL 1 mL preservative-free vials are on back order and the company estimates a release date of late-December 2017. The 0.5 mg/mL 10 mL preservative-free vials are on back order and the company estimates a release date of mid-January 2018. The 1 mg/mL 10 mL preservative-free vials are on back order and the company estimates a release date of mid-January 2018. The 2 mg/mL 1 mL iSecure syringes, 4 mg/mL 1 mL iSecure syringes, 8 mg/mL 1 mL Carpuject syringes, 8 mg/mL 1 mL iSecure syringes, 10 mg/mL 1 mL iSecure syringes, and 10 mg/mL 1 mL Carpuject syringes are on back order and the company estimates a release date of June 2019.
- West-Ward has Duramorph 0.5mg/mL 10 mL ampules and 1mg/mL 10mL ampules on a weekly allocation. The morphine 4mg/mL 1 mL vials and 10mg/mL 1 mL vials are on back order and the company estimates a

release date of December 2017 to January 2018. The morphine 8mg/mL 1 mL vials are on back order and the company estimates a release date of December 2017.

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

Pantoprazole Injection

December 18, 2017

Reason for the Shortage

- Pfizer has Protonix injection on shortage due to manufacturing delays.
- AuroMedics has pantoprazole injection available.

Estimated Resupply Date

- Pfizer has Protonix 40 mg vials in 10 count and 25 count packs available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1153>

Calcium Gluconate Injection

December 18, 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 Date

- 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 available with an expiration date of <8 months for the 10 mL vials and <9 months for the 50 mL and 100 mL vials.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=48>

Folic Acid Injection

December 18, 2017

Reason for the Shortage

- Fresenius Kabi had folic acid on shortage due to a delay in getting the active ingredient.

Estimated Resupply Date

- Fresenius Kabi has folic acid 5 mg/mL 10 mL vials on back order and the company estimates a release date of late-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=584>

Ketorolac Tromethamine Injection

December 18, 2017

Reason for the Shortage

- Amphastar did not provide a reason for the shortage.
- BD RX is now part of Fresenius Kabi.
- Fresenius Kabi did not provide a reason for the shortage.
- Pfizer has ketorolac injection on back order due to manufacturing delays.

- 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 Date

- Amphastar has ketorolac 30 mg/mL 1 mL vials on back order and the company cannot estimate a release date.¹
- Fresenius Kabi has ketorolac 30 mg/mL 1 mL prefilled syringes and 30 mg/mL 2 mL vials for intramuscular injection on back order and the company estimates a release date of mid- to late-December 2017.³
- Pfizer has ketorolac 30 mg/mL 1 mL Carpuject syringes, 30 mg/mL 1 mL iSecure syringes, and 30 mg/mL 2 mL Carpuject syringes for intramuscular injection on back order and the company estimates a release date of June 2019. The 30 mg/mL 1 mL vials and 30 mg/mL 2 mL vials for intramuscular injection are on back order and the company estimates a release date of mid-January 2018.⁴
- Sagent has ketorolac 15 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 December 2017. The 30 mg/mL 1 mL vials are on allocation.⁵
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=593>

Mannitol Injection

December 18, 2017

Reason for the Shortage

- American Regent did not provide a reason for the mannitol shortage.
- Baxter did not provide a reason for the mannitol shortage.
- Fresenius Kabi did not provide a reason for the mannitol shortage.
- Pfizer has mannitol on shortage due to manufacturing delays.

Estimated Resupply Date

- American Regent has mannitol 250 mg/mL 50 mL vials on back order and the company cannot estimate a release date.
- Baxter has Osmitrol 50 mg/mL 1000 mL premixed bags on back order and the company cannot estimate a release date. The 200 mg/mL 250 mL and 500 mL premixed bags are available in limited supply.
- Fresenius Kabi has mannitol 250 mg/mL 50 mL vials on back order and the company estimates a release date of early-January 2018.
- ICU Medical has mannitol 200 mg/mL 250 mL and 500 mL premixed bags available in limited supply.
- Pfizer has mannitol 250 mg/mL 50 mL vials available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=863>

Sodium Acetate Injection

December 18, 2017

Reason for the Shortage

- American Regent has had sodium acetate on long-term back order for several years.
- Fresenius Kabi had sodium acetate on shortage due to increased demand.
- Pfizer has sodium acetate on shortage due to manufacturing delays.

Estimated Resupply Date

- Pfizer has sodium acetate 2 mEq/mL 20 mL vials on back order and the company estimates a release date of late-January 2018. The 100 mL vials are available in limited supply.

- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=762>

0.9% Sodium Chloride 10 mL, 20 mL, and 50 mL Preservative Free Vials

December 15, 2017

Reason for the Shortage

- Fresenius Kabi has 0.9% sodium chloride preservative free vials available.
- Pfizer could not provide a reason for the shortage.

Estimated Resupply Date

- Pfizer has 0.9% sodium chloride preservative free 10 mL and 20 mL vials on back order and the company estimates a release date of mid-January 2018 for the 10 mL vials and late-December 2017 for the 20 mL vials. The 50 mL vials are also on back order and the company estimates a release date in January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1276>

5% Dextrose Injection

December 15, 2017

Reason for the Shortage

- ICU Medical states the shortage was due to increased demand.
- ICU Medical is now the IV fluid business of Pfizer after the acquisition of Hospira.
- Baxter did not provide a reason for the shortage.
- 5% dextrose 1,000-mL bags are not affected at this time.

Estimated Resupply Date

- Baxter has 5% dextrose 250 mL, 500 mL, and 1,000 mL bags on allocation.
- ICU Medical has 5% dextrose 250 mL, 500 mL, and 1,000 mL bags available in limited quantities.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1268>

5% Dextrose (PVC-free and DEHP free) Injection

December 15, 2017

Reason for the Shortage

- ICU Medical states the shortage is due to increased demand and manufacturing delays. ICU Medical discontinued the 500 mL VisIV bags in 2011 due to leaking around the administration and medications ports.
- ICU Medical is now the IV fluid business of Pfizer after the acquisition of Hospira.
- Baxter is not currently marketing 5% dextrose PVC/DEHP-free bags.
- BBraun has 250 mL, 500 mL, and 1,000 mL PVC/DEHP-free bags on back order due to manufacturing delays.

Estimated Resupply Date

- BBraun has 5% dextrose 250 mL, 500 mL, and 1,000 mL PVC/DEHP-free bags on back order and the company cannot estimate a release date.
- ICU Medical has 5% dextrose in 100 mL and 250 mL PVC/DEHP-free bags on back order and the company estimates a release date of mid-December 2017 for the 100 mL bags and late-December 2017 for the 250 mL bags. The 50 mL bags are on intermittent back order and the company is releasing supplies as they become available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1269>

Amoxapine Tablets

December 15, 2017

Reason for the Shortage

- Teva did not provide a reason for the shortage.
- Teva is the sole supplier of amoxapine.

Estimated Resupply Date

- Teva has amoxapine tablets on back order and the company estimates a release date in early-February 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1297>

Hydroxyzine Hydrochloride Injection

December 15, 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 Date

- American Regent has hydroxyzine 50 mg/mL 10 mL vials on back order and the company cannot estimate a release date. The 25 mg/mL 1 mL vials are available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1185>

Magnesium Sulfate Injection

December 15, 2017

Reason for the Shortage

- American Regent has had magnesium sulfate unavailable since late 2012.
- Fresenius Kabi had magnesium sulfate injection on shortage due to increased demand for the product.
- Pfizer has magnesium sulfate injection on shortage due to manufacturing delays.
- X-Gen has magnesium sulfate injection available.

Estimated Resupply Date

- Fresenius Kabi has magnesium sulfate 500 mg/mL 10 mL and 50 mL vials on back order and the company estimates a release date of mid- to late-December 2017. The 40 mg/mL 100 mL premixed bags are on back order and the company estimates a release date of late-January 2018.
- Pfizer has magnesium sulfate 500 mg/mL 20 mL vials on back order and the company estimates a release date of 2nd quarter 2018. The magnesium sulfate 40 mg/mL 500 mL and 1000 mL bags are on back order and the company estimates a release date of late-January 2018 for the 500 mL bags and early-February 2018 for the 1000 mL bags.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=757>

Yellow fever Vaccine Injection

December 15, 2017

Reason for the Shortage

- Sanofi Pasteur states the shortage is due to production delays.
- There are no other suppliers of yellow fever vaccine.
- [Additional information](#) on the yellow fever shortage.

Estimated Resupply Date

- Sanofi Pasteur has YF-Vax multi-dose vials and single dose vials on back order and the company estimates a release date in mid-2018.¹
- FDA accepted an investigational new drug application in October 2016. This is for the importation of another yellow fever vaccine from France. The trade name of the imported product is Stamaril.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=383>

Calcium Chloride Injection

December 13, 2017

Reason for the Shortage

- American Regent had calcium chloride on shortage due to manufacturing delays.
- Amphastar has calcium chloride on shortage due to increased demand.
- 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 Date

- American Regent has calcium chloride 100 mg/mL 10 mL vials on back order and the company cannot estimate a release date.
- Amphastar has calcium chloride 100 mg/mL 10 mL syringes on intermittent back order with regular releases.
- Pfizer has calcium chloride 100 mg/mL 10 mL Ansyr syringes on back order and the company estimates a release date of early-December 2017. The 100 mg/mL 10 mL LifeShield syringes are on back order and the company estimates a release date of mid-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=941>

Promethazine Injection

December 13, 2017

Reason for the Shortage

- Teva is not marketing promethazine injection at this time.
- West-Ward states the shortage is due to manufacturing delays.
- Hospira discontinued promethazine in 2016.
- X-Gen has promethazine available.

Estimated Resupply Date

- West-Ward has promethazine 50 mg/mL 1 mL ampules on back order and the company estimates a release date of January to February 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=654>

Vancomycin Hydrochloride Injection

December 13, 2017

Reason for the Shortage

- Pfizer has vancomycin vials on back order due to manufacturing delays.
- Fresenius Kabi has vancomycin injection on shortage due to increased demand.
- Mylan Institutional has vancomycin injection available.
- Sagent has vancomycin injection on shortage due to manufacturing delays and increased demand.
- Baxter has vancomycin injection available.
- Samson Medical Technologies has vancomycin injection available.

Estimated Resupply Date

- Fresenius Kabi has vancomycin 500 mg, 750 mg, 1 gram, 5 gram and 10 gram vials on intermittent back order with regular releases.
- Pfizer has vancomycin 500 mg vials, 1 gram vials, 5 gram vials, and 10 gram vials available in limited supply. The 500 mg ADD-Vantage vials, 750 mg vials, 750 mg ADD-vantage vials, and 1 gram ADD-Vantage vials are on back order and the company estimates a release date of February 2018 for the 500 mg ADD-Vantage vials, mid-January 2018 for the 750 mg ADD-Vantage vials, early-February 2018 for the 750 mg vials, and January 2018 for the 1 gram ADD-Vantage vials.
- Sagent has vancomycin 5 gram and 10 gram vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=132>

Cefepime Injection

December 12, 2017

Reason for the Shortage

- Apotex has updated their cefepime products with new NDC numbers. Supply of the discontinued NDCs may still be available at wholesalers.
- Baxter had cefepime on shortage due to increased demand.
- BBraun has cefepime on shortage due to increased demand.
- Fresenius Kabi had cefepime injection on shortage due to manufacturing delays.
- Pfizer had Maxipime on shortage due to manufacturing delays.
- Sagent had cefepime injection on shortage due to manufacturing delays.
- Sandoz discontinued cefepime injection in early-2016.
- WG Critical Care had cefepime injection on shortage due to increased demand

Estimated Resupply Date

- BBraun has cefepime 1 gram and 2 gram premixed bags on allocation to current customers.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1176>

Etomidate Injection

December 12, 2017

Reason for the Shortage

- American Regent did not provide a reason for the current shortage.
- AuroMedics did not provide a reason for the current shortage.
- Mylan did not provide a reason for the current shortage.
- Par Sterile Products discontinued etomidate in early 2015.
- Pfizer has Amidate on shortage due to manufacturing delays. Pfizer discontinued etomidate ampules in October 2016.
- Sagent is no longer marketing etomidate.
- West-Ward did not provide a reason for the current shortage.
- Zydus had etomidate on shortage due to an increase in demand.

Estimated Resupply Date

- American Regent has etomidate 2 mg/mL 10 mL and 20 mL vials on back order and the company cannot estimate a release date.
- AuroMedics has 2 mg/mL 20 mL vials on intermittent back order.
- Mylan Institutional has etomidate 2 mg/mL 10 mL and 20 mL vials on back order and the company estimates a release date of early-August 2018.

- Pfizer has Amidate 2 mg/mL 20 mL LifeShield syringes on back order and the company cannot estimate a release date. The 2 mg/mL 10 mL vials are on back order and the company estimates a release date of mid-December 2017.
- West-Ward has etomidate 2 mg/mL 10 mL and 20 mL vials on allocation. Short dated product is available..
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=419>

0.9% Sodium Chloride Large Volume Bags Injection Bags

December 12, 2017

Reason for the Shortage

- Baxter discontinued 0.9% sodium chloride 250 mL and 500 mL AVIVA bags. The 250 mL Viaflex bags are on back order
- BBraun did not provide a reason for the shortage.²
- Pfizer cited increased demand as the reason for the shortage.³
- Fresenius Kabi is no longer importing product.⁷
- Baxter has received FDA approval for 0.9% sodium chloride in Viaflo containers manufactured in an FDA-approved facility in Spain.

Estimated Resupply Date

- BBraun has 0.9% sodium chloride 250 mL, 500 mL, and 1,000 mL PVC/DEHP-free bags allocation.
- Baxter has 0.9% sodium chloride 250 mL, 500 mL, and 1,000 mL Viaflex bags on intermittent back order and the company is releasing product as it is available. The 20- mL, 500 mL, and 1,000 mL PVC/DEHP-free bags are on allocation.
- Pfizer has 0.9% sodium chloride 250 mL, 250 mL PVC/DEHP-free, 250 mL, and 250 mL and 500 mL 2-port bags, 150 mL, and 1,000 mL bags on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1288>

Alcohol Dehydrated Injection (Ethanol)

December 11, 2017

Reason for the Shortage

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

Estimated Resupply Date

- American Regent has dehydrated alcohol 1 mL and 5 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>

Chlorothiazide Sodium Injection

December 11, 2017

Reason for the Shortage

- Akorn has chlorothiazide injection on shortage due to manufacturing delays.
- Sagent has chlorothiazide injection on shortage due to increased demand.
- Sun Pharma refuses to provide availability information on any of their products.

Estimated Resupply Date

- Akorn has chlorothiazide 500 mg vials on back order and the company estimates a release date of February 2018.
- American Regent has chlorothiazide 500 mg vials available in limited supply.

- Fresenius Kabi has chlorothiazide 500 mg vials on back order and the company estimates a release date of mid-December 2017.
- Mylan Institutional has chlorothiazide 500 mg vials available with an expiration date of October 2018.
- Sagent has chlorothiazide 500 mg vials on back order and the company estimates a release date of December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1296>

Lidocaine with Epinephrine Injection

December 11, 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 Date

- Pfizer has 0.5% lidocaine with epinephrine (1:200,000) 50 mL on back order and the company estimates a release date of 2nd quarter 2018. The 1% lidocaine with epinephrine (1:100,000) 20 mL vials are on back order and the company estimates a release date of late-February 2018. The 1% lidocaine with epinephrine (1:100,000) 50 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 1% lidocaine with epinephrine (1:100,000) 30 mL vials are on back order and the company estimates a release date of mid-December 2017. The 1.5% lidocaine with epinephrine (1:200,000) 30 mL vials are on back order and the company estimates a release date of 1st quarter 2018. The 1.5% lidocaine with epinephrine (1:200,000) 5 mL ampules are available in limited supply. The 2% lidocaine with epinephrine (1:200,000) 20 mL vials are on back order and the company estimates a release date of 2nd quarter 2018. The 2% lidocaine with epinephrine (1:100,000) 20 mL, 30 mL, and 50 mL vials are on back order and the company estimates a release date of 2nd quarter 2018 for the 20 mL and 30 mL vials and 1st quarter 2018 for the 50 mL vials.
- 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-February 2018. The 1% Xylocaine with epinephrine (1:200,000) 20 mL and 50 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 1% Xylocaine-MPF with epinephrine (1:200,000) 30 mL vials are on back order and the company estimates a release date of early- to mid-January 2018. The 1% Xylocaine with epinephrine (1:200,000) 10 mL vials and 1% Xylocaine-MPF with epinephrine (1:200,000) 10 mL vials are on back order and the company cannot estimate a release date. The 1% Xylocaine-MPF with epinephrine (1:200,000) 30 mL vials in sterile packs are on back order and the company cannot estimate a release date. The 1.5% Xylocaine-MPF with epinephrine (1:200,000) 10 mL and 30 mL vials are on back order and the company cannot estimate a release date. The 1.5% Xylocaine-MPF with epinephrine (1:200,000) 30 mL vials in sterile packs are on back order and the company cannot estimate a release date. The 2% Xylocaine with epinephrine (1:200,000) 20 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 2% Xylocaine with epinephrine (1:200,000) 50 mL vials are on back order and the company cannot estimate a release date. The 2% Xylocaine-MPF with epinephrine (1:200,000) 10 mL vials are on back order and the company cannot estimate a release date. The 2% Xylocaine-MPF with epinephrine (1:200,000) 20 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 2% Xylocaine-MPF with epinephrine (1:200,000) 20 mL vials in sterile packs 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=860>

23.4% Sodium Chloride Injection

December 8, 2017

Reason for the Shortage

- Fresenius Kabi has 23.4% sodium chloride injection on shortage due to increased demand.
- Pfizer has 23.4% sodium chloride injection on shortage due to increased demand.

Estimated Resupply Date

- Fresenius Kabi has 23.4% sodium chloride 30 mL and 200 mL vials on intermittent back order and the company is releasing product as it becomes available. The 100 mL vials are on back order and the company estimates a release date of early- to mid-January 2018.
- Pfizer has 23.4% sodium chloride 200 mL vials on back order and the company estimates a release date of mid-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1279>

Atropine Sulfate Injection

December 8, 2017

Reason for the Shortage

- American Regent has atropine injection on shortage due to market demand.
- Pfizer has atropine injection on shortage due to manufacturing delays.

Estimated Resupply Date

- American Regent has atropine 0.4 mg/mL 1 mL ampules available in limited supply
- Pfizer has atropine 0.1 mg/mL 10 mL Ansyr syringes available in limited supply. The 0.1 mg/mL 5 mL LifeShield syringes and 0.1 mg/mL 10 mL LifeShield syringes are on back order and the company estimates a release date of March 2018 for the 5 mL LifeShield syringes and late-December 2017 for the 10 mL LifeShield syringes.
- West-Ward has atropine 0.4 mg/mL 20 mL vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=814>

Dobutamine Injection

December 8, 2017

Reason for the Shortage

- Baxter has dobutamine on shortage due to manufacturing delays.
- Pfizer has dobutamine on shortage due to manufacturing delays.

Estimated Resupply Date

- Baxter has all dobutamine premixed bags on allocation only through direct orders. Product is not available through wholesalers.
- Pfizer has dobutamine 12.5 mg/mL 20 mL and 40 mL latex-free vials on back order with an estimated release date of 2018. The 12.5 mg/mL 20 mL regular vials in 10 count are on back order and the company estimates a release date of late-December 2017. The 12.5mg/mL 20mL regular vials in single count are on back order and the company estimates a release date of January 2018
- Pfizer has dobutamine 1 mg/mL in 250 mL bags on back order and the company estimates a release date of late-February 2018. The dobutamine 2 mg/mL 250 mL bags are on back order and the company estimates a release date of early-February 2018. The dobutamine 4 mg/mL 250 mL bags are on back order and the company estimates a release date of late-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=929>

Electrolyte Concentrate

December 8, 2017

Reason for the Shortage

- American Regent has Nutrilite and Nutrilite II on back order due to manufacturing delays.

Estimated Resupply Date

- American Regent has Nutrilite and Nutrilite II presentations 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=1054>

Epinephrine Injection

December 8, 2017

Reason for the Shortage

- Amphastar stopped distributing epinephrine 1 mg/mL 30 mL vials on May 10, 2017. They are continuing to supply 0.1 mg/mL 10 mL syringes. These are on shortage due to increased demand.
- Pfizer stopped distributing epinephrine 1 mg/mL presentations on May 10, 2017.
- BPI has epinephrine 1 mg/mL 2 mL ampules available.
- Par has Adrenalin 1 mg/mL 1 mL and 30 mL vials available.

Estimated Resupply Date

- Amphastar has epinephrine 0.1 mg/mL 10 mL syringes on allocation.
- Pfizer has epinephrine 0.1 mg/mL 10 mL syringes on back order and the company estimates a release date of early-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=685>

Mepivacaine Injection

December 8, 2017

Reason for the Shortage

- Pfizer states the reason for the shortage is manufacturing delays.

Estimated Resupply Date

- Pfizer has Carbocaine 1% 50 mL multiple-dose vials on back order and the company estimates a release date of late-January 2018. Carbocaine 1% 30 mL preservative-free vials are available in limited supply. Carbocaine 1.5% 30 mL preservative-free vials are available in limited supply. Carbocaine 2% 50 mL multiple-dose vials are back order and the company estimates a release date of late-December 2017.
- Fresenius Kabi has Polocaine-MPF 2% 20 mL vials on back order and the company estimates a release date of early- to mid-January 2018. Polocaine-MPF 1% 30 mL vials are on back order and the company estimates a release date of mid-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=954>

Norepinephrine Bitartrate Injection

December 8, 2017

Reason for the Shortage

- Claris has norepinephrine injection available.
- Pfizer has Levophed on shortage due to manufacturing delays.
- Teva has norepinephrine injection on allocation due to increased demand

Estimated Resupply Date

- Pfizer has Levophed 1 mg/mL 4 mL ampules on back order and the company estimates a release date of late-January 2018.
- Teva has norepinephrine 1 mg/mL 4 mL vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1262>

Potassium Acetate Injection

December 8, 2017

Reason for the Shortage

- American Regent has not had product available for several years. It is unclear if they will market potassium acetate again in the future.
- Pfizer has potassium acetate on shortage due to manufacturing delays.

Estimated Resupply Date

- Pfizer has potassium acetate 2 mEq/mL 20 mL vials on back order and the company estimates a release date of mid-January 2018. The potassium acetate 50 mL vials are available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=668>

Selenium Injection

December 8, 2017

Reason for the Shortage

- American Regent did not provide a reason for the shortage.

Estimated Resupply Date

- American Regent has selenium 40 mcg/mL 10 mL vials available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=784>

Sodium Phosphate Injection

December 8, 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 is increased demand.
- Pfizer has sodium phosphate injection on shortage due to manufacturing delay.

Estimated Resupply Date

- 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 sodium phosphate 3 mmol/mL 15 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Pfizer has sodium phosphate 3 mmol/mL 15 mL vials on back order and the company estimates a release date of early-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=770>

Trace Elements Injection

December 8, 2017

Reason for the Shortage

- American Regent did not provide a reason for the shortage.

Estimated Resupply Date

- American Regent has trace elements-4 pediatric vials on back order and the company cannot estimate a release date. The Multitrace-4 Pediatric 3 mL vials, Multitrace-4 Neonatal 2 mL vials, and Multitrace-5 Concentrate 1 mL and 10 mL vials are available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=785>

Leucovorin Calcium Injection

December 7, 2017

Reason for the Shortage

- Fresenius Kabi has leucovorin available.
- Sagent has leucovorin on shortage due to manufacturing delay.
- Teva has leucovorin available.
- West-Ward did not provide a reason for the current shortage.

Estimated Resupply Date

- Fresenius Kabi has leucovorin 500 mg vials on intermittent back order and the company is releasing product as it becomes available.
- West-Ward has leucovorin 350 mg vials on allocation. The 100 mg and 200 mg vials are on back order and the company estimates a release date of December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=488>

Octreotide Injection

December 7, 2017

Reason for the Shortage

- Fresenius Kabi did not provide a reason for the shortage.
- Mylan Institutional has octreotide available.
- Sagent has octreotide on shortage due to manufacturing delays.
- Sun Pharma refuses to provide availability information for any of their products including octreotide.
- Teva has octreotide available.
- Novartis has Sandostatin available.
- West-Ward has octreotide available.

Estimated Resupply Date

- Fresenius Kabi has octreotide 50 mcg/mL 1 mL vials on back order and the company estimates a release date of 1st quarter 2018. The 100 mcg/mL 1 mL vials are on back order and the company estimates a release date of mid-December 2017.
- Sagent has octreotide 50 mcg/mL 1 mL vials on back order and the company estimates a release date of December 2017. The 500 mcg/mL 1 mL vials are on back order and the company estimates a release date of mid-December 2017.
- Teva has octreotide 500 mcg/mL 1 mL vials on intermittent back order and the company is releasing product as it becomes available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=803>

Piperacillin Tazobactam Injection

December 7, 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.
- 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 single dose vials and piperacillin/tazobactam 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](#) was allowing temporary importation of piperacillin/tazobactam 3.375 gram, 4.5 gram, and 40.5 gram vials from Canada. This was being distributed through X-Gen Pharmaceuticals. These are no longer being imported with the launch of the products from X-Gen. 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. More information can be found [here on the FDA site](#).
- Wockhardt has piperacillin/tazobactam injection available.
- X-Gen has piperacillin/tazobactam injection available.

Estimated Resupply Date

- 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 mid-December 2017.
- Baxter has Zosyn 3.375 gram/50 mL premixed bags available in limited supply.
- Fresenius Kabi has piperacillin/tazobactam 40.5 gram vials on back order and the company estimates a release date of early- to mid-January 2018.
- Mylan has piperacillin/tazobactam 4.5 gram vials on back order and the company estimates a resupply date of late-December 2017. The 3.375 gram vials are on back order and the company cannot estimate a release date.
- 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. Pfizer has piperacillin/tazobactam 3.375 gram and 4.5 gram ADD-Vantage vials available in limited supply.
- Sandoz has piperacillin/tazobactam 2.25 gram (NDC 00781-3110-85) and x) temporarily unavailable and the company cannot estimate a release date. The 4.5 gram vials (NDC 00781-3114-95) are on back order and the company estimates a release date of early-December 2017.
- WG Critical Care has piperacillin/tazobactam 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>

Ampicillin Sulbactam

December 6, 2017

Reason for the Shortage

- Pfizer has discontinued generic ampicillin sulbactam.
- Sandoz cannot provide a reason for the shortage.
- Sagent has ampicillin sulbactam vials on allocation due to manufacturing delays.
- WG Critical Care states the shortage was due to increased demand.

Estimated Resupply Date

- AuroMedics has ampicillin sulbactam 1.5 gram and 3 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 long-term back order and the company cannot estimate a release date.
- Mylan Institutional has ampicillin sulbactam 3 gram vials on back order and the company cannot estimate a release date.

- Sagent has ampicillin sulbactam 1.5 gram and 15 gram vials on back order and the company estimates a release date of December 2017. Short-dated product is available.
- 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 15 gram vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=805>

Cefuroxime Sodium Injection

December 6, 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 Date

- Sagent has cefuroxime 750 mg and 1.5 gram vials on back order and the company estimates a release date of December 2017. The 7.5 gram vials on back order and the company cannot estimate a release date.
- Teligent has Zinacef 750 mg vials, 750 mg ADD-Vantage vials, 1.5 gram vials, and 7.5 gram vials on long-term back order and the company cannot estimate a release date.
- West-Ward has cefuroxime 750 mg vials and 7.5 gram vials on allocation. The 1.5 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=990>

Dexrazoxane Injection

December 6, 2017

Reason for the Shortage

- Cumberland Pharmaceuticals relaunched Totect in late-July 2017.
- Mylan Institutional did not provide a reason for the shortage.
- Pfizer states manufacturing delay as the reason for the shortage.
- West-Ward is not actively marketing dexrazoxane injection at this time.

Estimated Resupply Date

- Pfizer has Zinecard 250 mg and 500 mg vials on back order and the company estimates a release date of 1st quarter 2018 for the 250 mg vials and September 2018 for the 500 mg vials.
- Mylan has dexrazoxane 250 mg and 500 mg vials on back order and the company estimates a release date of late-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=415>

Furosemide Tablets

December 6, 2017

Reason for the Shortage

- Major states the shortage is due to supply and demand issues.
- Mylan and Teva did not provide a reason for the shortage.
- West-Ward states the shortage is due to manufacturing delays.
- Sandoz discontinued furosemide tablets in late-August 2017.

Estimated Resupply Date

- Mylan has furosemide 20 mg tablets in 100 count and 1000 count on intermittent back order and the company is releasing product as it becomes available. The 40 mg tablets in 100 count and 1000 count bottles are on intermittent back order and the company is releasing product as it becomes available. The furosemide 80 mg tablets in 100 count and 1000 count bottles are on intermittent back order and the company is releasing product as it becomes available.
- Teva has furosemide 20 mg and 40 mg tablets in 100 and 1000 count bottles temporarily unavailable and the company cannot estimate a release date.
- West-Ward has furosemide 20 mg 100 count unit-dose blister pack and in 100 count and 1000 count bottles on allocation. The 40 mg tablets in 100 count and 1000 count bottles and 100 count unit-dose blister packs are on allocation. The 80 mg tablets in 100 count bottles and 100 count unit-dose blister packs are on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1281>

Lactated Ringer's Injection

December 6, 2017

Reason for the Shortage

- Baxter did not provide a reason for the shortage.
- BBraun states the reason for the shortage is increased demand.
- ICU Medical states the reason for the shortage is increased demand.

Estimated Resupply Date

- Baxter did not provide a reason for the shortage.
- BBraun states the reason for the shortage is increased demand.
- ICU Medical states the reason for the shortage is increased demand.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1294>

Metoprolol Injection

December 6, 2017

Reason for the Shortage

- Alvogen has metoprolol injection available.
- American Regent has had metoprolol injection on long-term back order for several years.
- Athenex has metoprolol injection available.
- Claris has metoprolol injection available.
- Fresenius Kabi has metoprolol injection available.
- Mylan Institutional acquired metoprolol injection from Sagent.
- Pfizer has metoprolol injection on shortage due to manufacturing delays.
- West-Ward has metoprolol injection available.

Estimated Resupply Date

- Alvogen has metoprolol injection available.
- American Regent has had metoprolol injection on long-term back order for several years.
- Athenex has metoprolol injection available.
- Claris has metoprolol injection available.
- Fresenius Kabi has metoprolol injection available.
- Mylan Institutional acquired metoprolol injection from Sagent.
- Pfizer has metoprolol injection on shortage due to manufacturing delays.
- West-Ward has metoprolol injection available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=813>

Mitoxantrone Hydrochloride Injection

December 6, 2017

Reason for the Shortage

- Fresenius Kabi has mitoxantrone available.
- Pfizer has mitoxantrone injection on shortage due to manufacturing delays.
- Teva has mitoxantrone injection available except for the 10 mL vials which are temporarily discontinued.

Estimated Resupply Date

- Fresenius Kabi has mitoxantrone available.
- Pfizer has mitoxantrone injection on shortage due to manufacturing delays.
- Teva has mitoxantrone injection available except for the 10 mL vials which are temporarily discontinued.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1212>

Indocyanine Green

December 5, 2017

Reason for the Shortage

- Akorn had IC-Green on shortage due to manufacturing delays.
- Hub has indocyanine green available.

Estimated Resupply Date

- Akorn had IC-Green on shortage due to manufacturing delays.
- Hub has indocyanine green available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1107>

Meperidine Hydrochloride Injection

December 5, 2017

Reason for the Shortage

- Pfizer has Demerol injection on shortage due to manufacturing delays.

Estimated Resupply Date

- Pfizer has Demerol 50 mg/mL 0.5 mL ampules on intermittent back order and the company is releasing product as it becomes available. The 100 mg/mL 20 mL vials are on back order and the company estimates a release date of 1st quarter 2018. The 25 mg/mL 1 mL Carpuject syringes, 50 mg/mL 1 mL Carpuject syringes, 75 mg/mL 1 mL Carpuject syringes, and 100 mg/mL 1 mL Carpuject syringes are on back order and the company estimates a release date of September 2018. The 50 mg/mL 30 mL vials are on back order and the company estimates a release date of January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1285>

Nitroglycerin Injection

December 5, 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 Date

- American Regent has nitroglycerin 50 mg/mL 10 mL vials available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=786>

Sodium Bicarbonate Injection

December 5, 2017

Reason for the Shortage

- Amphastar has sodium bicarbonate injection on shortage due to increased demand.
- Pfizer has sodium bicarbonate injection on shortage due to manufacturing delays.
- Fresenius Kabi has reintroduced sodium bicarbonate injection in response to the shortage.

Estimated Resupply Date

- Amphastar has 8.4 % sodium bicarbonate 50 mL syringes on allocation.
- Pfizer has 8.4 % sodium bicarbonate 10 mL syringes and 7.5% sodium bicarbonate 50 mL syringes on back order and the company estimates a release date of mid-February 2018. The 8.4% 50 mL syringes and 50 mL vials are available in limited supply. The 4.2% sodium bicarbonate 10 mL syringes are available in limited supply.
- Pfizer has Neut 4% additive solution in 5 mL vials on back order and the company estimates a release date of January 2018.
- To help alleviate the shortage, FDA is granting Athenex Pharmaceutical Division (APD) the ability to import 10 mL vials of sodium bicarbonate from Phebra, an Australian company. Supplies are limited and only available via direct orders. Orders may be placed by contacting customer service at 855-273-0154 or apdorders@dlss.com. <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=788>

Rocuronium Injection

December 6, 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.
- AuroMedics launched rocuronium in mid-2017.

Estimated Resupply Date

- Auromedics has rocuronium 10 mg/mL 5 mL and 10 mL vials available with intermittent releases.
- Fresenius Kabi has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of mid-December 2017.
- Pfizer has rocuronium 10 mg/mL 5 mL vials on back order and the company estimates a release date of mid-December 2017. Rocuronium 10 mg/mL 10 mL vials are on back order and the company estimates a release date of early-January 2018.
- Sagent has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of January 2018.
- Sandoz has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of early-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=434>

Fentanyl Citrate Injection

December 5, 2017

Reason for the Shortage

- Akorn has fentanyl injection on shortage due to increased demand.
- West-Ward has fentanyl injection on shortage due to supply and demand issues.

- Pfizer has fentanyl injection on shortage due to manufacturing delays. The 20 mL ampules were discontinued in September 2017.

Estimated Resupply Date

- Akorn has Sublimaze 50 mcg/mL 2 mL ampules in 10 count and 25 count and 5 mL ampules in 10 count and 25 count on allocation.
- Pfizer has fentanyl 50 mcg/mL 5 mL ampules on intermittent back order and the company is releasing product as it becomes available. The 2 mL ampules are available in limited supply. The 2 mL Carpuject syringes are on back order and the company estimates a release date of June 2019. The 2 mL, 5 mL, 20 mL, and 50 mL vials are on intermittent back order and the company is releasing product as it becomes available.
- West-Ward has fentanyl 50 mcg/mL 2 mL, 5 mL, 10 mL, 20 mL, and 50 mL vials on allocation. The 20 mL vials are on back order and the company estimates a release date of December 2017. The 2 mL, 5 mL, and 20 mL ampules 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=1273>

Famotidine Injection

December 4, 2017

Reason for the Shortage

- Ben Venue stopped production in its plant in Bedford, Ohio and closed in July 2014.
- West-Ward has famotidine vials available.
- 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.
- Fresenius Kabi has famotidine vials available.

Estimated Resupply Date

- Baxter has famotidine 20 mg/50 mL premixed bags available in limited supply.
- West-Ward has famotidine 10 mg/mL 20 mL vials on intermittent back order and the company is releasing product as it becomes available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=810>

Methadone Injection

December 1, 2017

Reason for the Shortage

- Mylan Institutional did not provide a reason for the shortage.

Estimated Resupply Date

- Mylan Institutional has methadone 10 mg/mL 20 mL vials on back order and the company estimates a release date of mid-December 2017
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1291>

Moxifloxacin Injection

December 1, 2017

Reason for the Shortage

- Bayer did not provide a reason for the shortage.
- Fresenius Kabi has moxifloxacin injection on shortage due to increased demand.

Estimated Resupply Date

- Fresenius Kabi has moxifloxacin 400 mg/250 mL premixed bags on back order and the company estimates a release date of mid- to late-March 2018.
- Bayer has Avelox I.V. 400 mg/250 mL premixed bags on back order and the company estimates a release date of late-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1151>

Levetiracetam Injection

November 30, 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 had levetiracetam injection on shortage due to manufacturing delays.
- UCB has product available.
- West-Ward has product available.
- X-Gen has product available.

Estimated Resupply Date

- AuroMedics has levetiracetam 5 mg/mL 100 mL vials and 10 mg/mL 100 mL vials on intermittent back order and the company is releasing product as it becomes available.
- American Regent has levetiracetam 100 mg/mL 5 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=1183>

Asparaginase *Erwinia chrysanthemi*

November 29, 2017

Reason for the Shortage

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

Estimated Resupply Date

- 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>

C1-Esterase Inhibitor (Human) Injection

November 29, 2017

Reason for the Shortage

- CSL Behring has limited supply of Berinert due to increased demand.
- Shire has resumed manufacturing of Cinryze and certain lots are available.
- The subcutaneous dosage form of C1-esterase inhibitor (human) is unaffected by this shortage.

Estimated Resupply Date

- CSL Behring is shipping limited supplies of Berinert to specialty distributors.

- Shire has certain lots of Cinryze available.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1282>

Ceftazidime Injection

November 29, 2017

Reason for the Shortage

- Pfizer has Tazicef available.
- Sagent has ceftazidime injection on shortage due to manufacturing delays.
- Sandoz discontinued ceftazidime 1 gram and 2 gram vials in 2015.
- BBraun had ceftazidime on allocation due to increased demand.
- WG Critical Care had ceftazidime on shortage due to manufacturing delays.

Estimated Resupply Date

- Teligent has Fortaz 2 gram and 6 gram vials on back order and the company cannot estimate a release date.
- Sagent has ceftazidime 2 gram vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=869>

Clindamycin Injection

November 29, 2017

Reason for the Shortage

- Akorn did not provide a reason for the shortage.
- Alvogen did not provide a reason for the shortage.
- Fresenius Kabi did not provide a reason for the shortage.
- Pfizer has Cleocin available.
- Sagent has clindamycin on shortage due to manufacturing delays.
- Sandoz has clindamycin injection available.

Estimated Resupply Date

- Alvogen has clindamycin 150 mg/mL 6 mL vials on back order and the company cannot estimate a release date.
- Fresenius Kabi has clindamycin 150 mg/mL 6 mL vials on back order and the company estimates a release date of mid-December 2017. The 150 mg/mL 4 mL vials are available with an expiration date of <4 months.
- Sagent has clindamycin 150 mg/mL 2 mL and 4 mL vials on back order and the company estimates a release date of December 2017.
- Pfizer has Cleocin 150 mg/mL 6 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=1029>

Dexamethasone Sodium Phosphate

November 29, 2017

Reason for the Shortage

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

Estimated Resupply Date

- 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 1 mL, 5 mL, and 30 mL vials on intermittent back order and the company is releasing product as it becomes available.
- West-Ward has dexamethasone sodium phosphate 4 mg/mL 1 mL and 5 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=751>

Doxycycline Hyclate Injection

November 29, 2017

Reason for the Shortage

- Mylan Institutional temporarily discontinued doxycycline 100 mg vials in March 2016.
- Fresenius Kabi has doxycycline injection on shortage due to increased demand.

Estimated Resupply Date

- Fresenius Kabi has doxycycline 100 mg vials on intermittent back order with regular releases.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=431>

Lidocaine Injection

November 29, 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 Date

- AuroMedics has 1% lidocaine 5 mL ampules on intermittent back order and the company is releasing product as it becomes available. AuroMedics has 2% lidocaine 2 mL ampules on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has 1% Xylocaine 50 mL vials on intermittent back order and the company is releasing product as it becomes available. The 1% Xylocaine-MPF 30 mL vial and 30 mL vial sterile packs are on back order and the company estimates a release date in late-December 2017 for the 30 mL vials and mid-December 2017 for the 30 mL vial sterile packs. The 2% Xylocaine-MPF 5 mL vials are on intermittent back order and the company is releasing product as it becomes available.
- Pfizer has 0.5% lidocaine 50 mL tear drop vials on back order and the company estimates a release date in mid-January 2018. The 1% lidocaine 20 mL vials, 30 mL preservative-free vials, and 5 mL LifeShield syringes are on intermittent back order and the company is releasing product as it becomes available. The 1% lidocaine 5 mL preservative-free ampules are on back order and the company estimates a release date in January 2018. The 1% lidocaine 2 mL preservative-free ampules are on back order and the company estimates a release date of early-February 2018. The 1% lidocaine 5 mL Ansyr syringes and 1% lidocaine 50 mL vials are on allocation. The 2% lidocaine 5 mL vials are on back order and the company estimates a release date of early-January 2018. The 2% lidocaine 10 mL ampules and 2% lidocaine 5 mL LifeShield syringes are on back order and the company estimates release dates of mid-December 2017 for the ampules and late-December 2017 for the syringes. The 2% lidocaine 2 mL preservative-free ampules, 20 mL vials, and 5 mL Ansyr syringes are on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=859>

Lorazepam Injection

November 29, 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 Date

- Pfizer has lorazepam 2 mg/mL 1 mL Carpuject syringes on back order and the company estimates a release date of mid-January 2018. The 2 mg/mL 10 mL vials are on back order and the company estimates a release date of early-January 2018. The 4 mg/mL 1 mL and 10 mL vials are on back order and the company cannot estimate a release date. The 4 mg/mL 1 mL Carpuject syringes are on back order and the company estimates a release date of June 2019.
- West-Ward has lorazepam 2 mg/mL 1 mL vials on allocation. The 2 mg/mL 10 mL vials are on back order and the company estimates a release date of December 2017. The 4 mg/mL 1 mL vials are on back order and the company estimates a release date of December 2017 to January 2018. The 4 mg/mL 10 mL vials are on allocation.
- West-Ward has Ativan 2 mg/mL 1 mL and 10 mL vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1270>

Retepase Injection

November 29, 2017

Reason for the Shortage

- Chiesi USA acquired Cornerstone Therapeutics in March 2014.
- Cornerstone Therapeutics acquired EKR Therapeutics in June 2012. EKR Therapeutics had previously purchased Retavase from PDL BioPharma.
- Cornerstone Therapeutics was seeking FDA approval of a new supplier of the active pharmaceutical ingredient for [Retevase](#).

Estimated Resupply Date

- Chiesi USA has Retavase 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=569>

Dorzolamide 2% and Timolol 0.5% Ophthalmic Solution

November 28, 2017

Reason for the Shortage

- Akorn has dorzolamide and timolol ophthalmic solution on shortage due to manufacturing delays.
- Sandoz did not provide a reason for the shortage.
- Teva did not provide a reason for the shortage.
- Valeant did not provide a reason for the shortage.

Estimated Resupply Date

- Akorn has dorzolamide 2% and timolol 0.5% ophthalmic solution on allocation. The company has Cosopt 2%/0.5% ophthalmic solution on back order and the company cannot estimate a release date. Cosopt PF 0.2 mL preservative-free vials are available.

- Sandoz has dorzolamide 2% and timolol 0.5% ophthalmic solution on back order and the company estimates a release date of early-February 2018.
- Teva has dorzolamide 2% and timolol 0.5% ophthalmic solution on back order and the company estimates a release date of mid-December 2017.
- Valeant has dorzolamide 2% and timolol 0.5% ophthalmic solution on back order and the company estimates a release date of mid-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1292>

Dorzolamide Ophthalmic Solution

November 28, 2017

Reason for the Shortage

- Akorn has dorzolamide ophthalmic solution on shortage due to manufacturing delays.
- Merck did not provide a reason for the shortage.
- Sandoz did not provide a reason for the shortage.
- Teva did not provide a reason for the shortage.
- Valeant has dorzolamide ophthalmic solution on shortage due to manufacturing delays.

Estimated Resupply Date

- Akorn has dorzolamide 2% ophthalmic solution on allocation.
- Merck has Trusopt 2% ophthalmic solution on back order and the company cannot estimate a release date.
- Sandoz has dorzolamide 2% ophthalmic solution on back order and the company cannot estimate a release date.
- Teva has dorzolamide 2% ophthalmic solution on back order and the company cannot estimate a release date.
- Valeant has dorzolamide 2% ophthalmic solution on back order and the company estimates a release date of early-January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1293>

Flurbiprofen Sodium Ophthalmic Solution

November 28, 2017

Reason for the Shortage

- Allergan discontinued Ocufen ophthalmic solution in February 2017.
- Valeant has flurbiprofen sodium on shortage due to manufacturing delay.

Estimated Resupply Date

- Valeant has flurbiprofen sodium ophthalmic solution available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1283>

Diltiazem Hydrochloride Injection

November 27, 2017

Reason for the Shortage

- Akorn states the reason for the shortage was increased demand due to market conditions.
- Pfizer states the reasons for the shortage is 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 Date

- Pfizer has 100 mg ADD-Vantage vials available in limited supply. The 5 mg/mL 5 mL and 10 mL vials are on back order and the company estimates a release date of 2018 for the 10 mL vials and cannot estimate a release date for the 5 mL vials.
- West-Ward has diltiazem 5 mg/mL 25 mL vials on a weekly allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1271>

Disopyramide Phosphate Controlled-release Capsules

November 27, 2017

Reason for the Shortage

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

Estimated Resupply Date

- Pfizer has Norpace CR 150 mg capsules in 100 count available with an expiration date of July 2018. The 100 mg capsules in 100 count are available with an expiration date of April 2018. The 100 mg capsules in 500 count and 150 mg capsules in 500 count are on back order and the company estimates a release date of January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1139>

Ofloxacin Ophthalmic Solution

November 27, 2017

Reason for the Shortage

- Allergan has Ocuflax ophthalmic solution available.
- Akorn did not provide a reason for the shortage.
- Rising has ofloxacin ophthalmic solution available.
- Valeant did not provide a reason for the shortage.

Estimated Resupply Date

- Valeant has ofloxacin ophthalmic solution in 10 mL bottles on back order and the company estimates a release date of late-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1235>

Cisplatin Injection

November 22, 2017

Reason for the Shortage

- Pfizer has diazepam on shortage due manufacturing delays.
- Estimated Resupply Date Fresenius Kabi has cisplatin available.
- Mylan Institutional could not provide a reason for the shortage.
- Teva had cisplatin on allocation due to increased demand.
- WG Critical Care has cisplatin available.

Estimated Resupply Date

- Mylan Institutional has cisplatin 50 mL and 100 mL vials temporarily unavailable and the company cannot estimate a release date.
- WG Critical Care has cisplatin 1 mg/mL 50 mL and 100 mL presentations available. The 200 mL presentation is available to current customers.
- <https://www.ashp.org/drug-shortages/current-shortages/Drug-Shortage-Detail.aspx?id=57>

Dipyrimadole Injection

November 22, 2017

Reason for the Shortage

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

Estimated Resupply Date

- West-Ward has dipyridamole 5 mg/mL 10 mL vials on back order and the company estimates a release date of December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=465>

Furosemide Injection

November 22, 2017

Reason for the Shortage

- American Regent is not actively marketing furosemide injection.
- Pfizer has furosemide injection on shortage due to manufacturing delays and increased demand.
- Claris has furosemide injection available.
- Fresenius Kabi has furosemide injection available.

Estimated Resupply Date

- Claris has furosemide 10 mg/mL 10 mL vials in 5 count and 25 count on back order and the company cannot estimate a release date.
- Pfizer has furosemide 10 mg/mL 10 mL syringes are on back order and the company estimates a release date of early-December 2017. The 10 mL vials and 4 mL syringes are on back order and the company estimates a release date of late-November 2017. The 2 mL vials are on back order and the company estimates a release date of mid-December 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=636>

Diazepam Injection

November 22, 2017

Reason for the Shortage

- Pfizer has diazepam on shortage due manufacturing delays.

Estimated Resupply Date

- Pfizer has diazepam 5 mg/mL 2 mL Carpuject syringes on back order and the company estimates a release date of late-December 2017. The 5 mg/mL 10 mL vials are available in limited supply.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=492>

Heparin Injection

November 22, 2017

Reason for the Shortage

- Fresenius Kabi did not provide a reason for the shortage.
- Pfizer did not provide a reason for the shortage.
- Sagent has all heparin presentations available.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Date

- West-Ward has 1,000 mL 30 mL vials and 5,000 unit/mL 10 mL vials are on back order and the company cannot estimate a release date.
- Pfizer has 10,000 unit/mL 0.5 mL preservative-free Carpuject syringes on back order and the company estimates a release date of late-November 2017. The 5,000 unit/mL 10 mL vials are on back order and the company estimates a release date in late-February 2017. The 1,000 unit/mL 10 mL glass vials and 30 mL glass vials are on back order and the company estimates a release date of mid-December 2017. The 1,000 unit/mL 10 mL vials are on back order and the company estimates a release date of 1st quarter 2018. The 10,000 unit/mL 1 mL vials and 1,000 unit/mL 30 mL vials are on back order and the company estimates a release date of January 2018.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1289>

Metoclopramide Injection

November 22, 2017

Reason for the Shortage

- Fresenius Kabi has metoclopramide 2 mL syringes available.
- Pfizer has metoclopramide injection on shortage due to manufacturing delays.
- Teva has metoclopramide injection on shortage.

Estimated Resupply Date

- Fresenius Kabi has metoclopramide 5 mg/mL 2 mL syringes on back order and the company estimates a release date of mid- to late-December 2017.
- Pfizer has metoclopramide 5 mg/mL 2 mL vials on back order and the company estimates a release date of January 2018.
- Teva has metoclopramide 5 mg/mL 2 mL vials on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=611>

0.9% Sodium Chloride Small Volume Bags (<150 mL)

November 22, 2017

Reason for the Shortage

- Baxter has 0.9% sodium chloride small volume bags on shortage due to manufacturing delays.
- BBraun has 0.9% sodium chloride small volume bags on shortage due to increased demand.
- ICU Medical has 0.9% sodium chloride small volume bags on shortage due to increased demand.

Estimated Resupply Date

- Baxter has all 0.9% sodium chloride small volume bags on allocation.
- BBraun has all 0.9% sodium chloride small volume bags on allocation.
- ICU Medical has all 0.9% sodium chloride small volume bags on allocation.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1287>

Multiple Vitamins for Infusion

November 21, 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 Date

- Pfizer has M.V.I. adult 50 mL Dual vials on back order and the company estimates a release date of early-January 2018.

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

Carbidopa and Levodopa Extended-Release Tablets

November 21, 2017

Reason for the Shortage

- Accord has discontinued carbidopa and levodopa 25 mg/100 mg extended-release tablets due to problems obtaining active ingredient. The 50 mg/ 200 mg tablets remain available.
- Caraco refuses to provide availability information. However, per FDA, Caraco has carbidopa and levodopa extended-release tablets available.
- Merck could not provide a reason for the Sinemet CR shortage.
- Mylan could not provide a reason for the shortage.

Estimated Resupply Date

- Merck has Sinemet CR 25 mg/100 mg and 50 mg/200 mg tablets on back order and the company estimates a release date in late-October 2017.
- <https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1181>

*Please refer to ASHP website for more information at: <http://www.ashp.org/menu/DrugShortages/CurrentShortages/>