February 2018

Drug Information Update

TABLE OF CONTENTS

NEWLY AVAILABLE GENERICS

GENERIC DRUG NAME	STRENGTH & DOSAGE FORM	GENERIC MANUFACTURER	BRAND NAME
EFAVIRENZ	600MG TABLET	MYLAN	SUSTIVA
HALOPERIDOL LACTATE	5MG/ML SYRINGE	BRECKENRIDGE	HALOPERIDOL LACTATE
BETAMETHASONE/ NORFLURAN/PENTFLU	6MG/ML KIT	ENOVACHEM MANUF	BETALOAN SUIK
LIDOCAINE/RACEPINEP/ TETRACAINE	4%-0.05%-0.5% SOL/PF APP	JCB LABS/OF	L.E.T. (LIDO-EPINEPH-TETRA)
HYDROCORTISONE/MIN OIL/PETROLAT, WHT	1%	SOLUBIOMIX LLC	HYDROCORTISONE
TRIENTINE HCL	250MG	ACTAVIS PHARMA	SYPRINE
TRIENTINE HCL	250MG	OCEANSIDE PHARM	SYPRINE
HYDROCORTISONE BUTYRATE	0.1%	TELIGENT PHARMA	LOCOID

NEW DRUG ENTITIES/COMBINATIONS/STRENGTHS

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
ANTIHYPERGLYCEMIC, SGLT-2 AND DPP-4 INHIBITOR COMB	STEGLUJAN	ERTUGLIFLOZIN/SITAGLIPTIN	5 MG-100MG	New Combination
ANTIHYPERGLYCEMIC, SGLT-2 AND DPP-4 INHIBITOR COMB	STEGLUJAN	ERTUGLIFLOZIN/SITAGLIPTIN	15MG-100MG	New Combination
DIRECT FACTOR XA INHIBITORS	ELIQUIS	APIXABAN	5 MG (74)	New Dosage Form
ANTIDIURETIC AND VASOPRESSOR HORMONES	NOCTIVA	DESMOPRESSIN ACETATE	0.83/SPRAY	New Strength
ANTIDIURETIC AND VASOPRESSOR HORMONES	NOCTIVA	DESMOPRESSIN ACETATE	1.66/SPRAY	New Strength
RENIN-ANGIOTENSIN-ALDOSTERONE SYS. (RAAS) HORMONES	GIAPREZA	ANGIOTENSIN II ACETATE, HUMAN	2.5 MG/ML	New Entity
MYDRIATICS	LIDOCAINE-PHENYLEPHRINE-BSS	LIDOCAIN/PHENYLEPH/BSS NO.2/PF	1 %-1.5 %	New Combination
NASAL ANTI-INFLAMMATORY STEROIDS	SINUVA	MOMETASONE FUROATE	1350 MCG	New Strength and Dosage Form
ANTIHYPERTENSIVES, MISCELLANEOUS	NIPRIDE RTU	NITROPRUSSIDE IN 0.9% NACL	10MG/50ML VIAL	New Strength
ANTIHYPERGLYCEMIC-SGLT2 INHIBITOR-BIGUANIDE COMBS.	SEGLUROMET	ERTUGLIFLOZIN/METFORMIN	2.5-500 MG	New Entity
ANTIHYPERGLYCEMIC-SGLT2 INHIBITOR-BIGUANIDE COMBS.	SEGLUROMET	ERTUGLIFLOZIN/METFORMIN	2.5-1000 MG	New Entity
ANTIHYPERGLYCEMIC-SGLT2 INHIBITOR-BIGUANIDE COMBS.	SEGLUROMET	ERTUGLIFLOZIN/METFORMIN	7.5-500 MG	New Entity
ANTIHYPERGLYCEMIC-SGLT2 INHIBITOR-BIGUANIDE COMBS.	SEGLUROMET	ERTUGLIFLOZIN/METFORMIN	7.5-1000 MG	New Entity

DESCRIPTION	BRAND NAME	GENERIC NAME	STRENGTH	NOTES
SICKLE CELL ANEMIA AGENTS	ENDARI	GLUTAMINE	5 G POWDER PACK	New Strength
ARV-NUCLEOSIDE,NUCLEOTIDE RTI,INTEGRASE INHIBITORS	BIKTARVY	BICTEGRAV/EMTRICIT/TENOFOV ALA	50-200-25MG	New Entity
CYSTIC FIBROSIS-CFTR POTENTIATOR-CORRECTOR COMBIN.	SYMDEKO	TEZACAFTOR/IVACAFTOR	100MG-150MG (day)/ 150MG (night)	New Entity and Combination
ANTINEOPLASTIC - ANTIANDROGENIC AGENTS	ERLEADA	APALUTAMIDE	60 MG	New Entity

NEW INDICATIONS (EXISTING DRUGS)

FLUARIX® QUADRIVALENT

January 11, 2018

GSK [LSE/NYSE: GSK] announced today it has received approval from the US Food and Drug Administration's (FDA) Center for Biologics Evaluation and Research expanding the indication for FLUARIX® QUADRIVALENT (Influenza Vaccine) to include use in persons 6 months and older. Prior to this, the vaccine was only approved for active immunization against influenza A subtype viruses and type B viruses, in persons 3 years of age and older.

Source: GSK

GILOTRIF®

January 12, 2018

Ridgefield, Conn., January 16, 2018 – Boehringer Ingelheim today announced that the U.S. Food and Drug Administration (FDA) has approved a supplemental New Drug Application (sNDA) for Gilotrif® (afatinib) for the first-line treatment of patients with metastatic non-small cell lung cancer (NSCLC) whose tumors have non-resistant epidermal growth factor receptor (EGFR) mutations as detected by an FDA-approved test. The new label includes data on three additional EGFR mutations: L861Q, G719X and S768I. The FDA granted Priority Review status to Gilotrif in evaluating this application.

Source: Boehringer Ingelheim

LYNPARZA®

January 12, 2018

AstraZeneca and Merck & Co., Inc., Kenilworth, N.J., US (Merck: known as MSD outside the US and Canada) today announced that the US Food and Drug Administration (FDA) has approved Lynparza (olaparib), for use in patients with deleterious or suspected deleterious germline BRCA-mutated (gBRCAm), human epidermal growth factor receptor 2 (HER2)-negative metastatic breast cancer who have been previously treated with chemotherapy in the neoadjuvant, adjuvant or metastatic setting. Patients with hormone receptor positive (HR+) breast cancer should have been treated with a prior endocrine therapy or be considered inappropriate for endocrine therapy. Patients are selected for therapy based on an FDA-approved companion diagnostic from Myriad Genetics.

Source: AstraZeneca and Merck & Co.

OPDIVO®

January 20, 2018

Bristol-Myers Squibb Company (NYSE:BMY) today announced new data from a cohort of the phase 2 CheckMate -142 trial evaluating Opdivo (nivolumab) and Yervoy (ipilimumab) for the treatment of patients with DNA mismatch repair deficient (dMMR) or microsatellite instability-high (MSI-H) metastatic colorectal cancer (mCRC). With a median of 13.4 months of follow-up, the primary endpoint of objective response rate (ORR) per investigator assessment was 55% (95% CI: 45.2 to 63.8). Responses were durable, with median duration of response not yet reached and 94% of responses ongoing at time of data cutoff. The overall survival (OS) rate at one year was 85% (95% CI: 77.0 to 90.2), and median OS was not yet reached. Grade 3-4 treatment-related adverse events (TRAEs) occurred in 32% of patients receiving the Opdivo plus Yervoy combination. Patients received mCRC combination dosing of Opdivo (3

mg/kg) plus Yervoy (1 mg/kg) every three weeks for four doses, followed by Opdivo (3 mg/kg) every two weeks until disease progression, death or unacceptable toxicity.

Source: Bristol-Myers Squibb Company

TRULANCE®

January 25, 2018

Synergy Pharmaceuticals Inc. (NASDAQ:SGYP) announced today that the U.S. Food and Drug Administration (FDA) has approved TRULANCE® (plecanatide) 3 mg tablet for the once-daily treatment of irritable bowel syndrome with constipation (IBS-C) in adults. This is the second indication for TRULANCE, which is already approved for the treatment of adults with chronic idiopathic constipation (CIC).

Source: Synergy Pharmaceuticals Inc.

AVYCAZ®

February 1, 2018

Allergan plc (NYSE: AGN), a leading global pharmaceutical company, today announced that the U.S. Food and Drug Administration (FDA) has approved Allergan's supplemental New Drug Application (sNDA) to expand the approved use of AVYCAZ® (ceftazidime and avibactam) to include the treatment of hospital-acquired bacterial pneumonia and ventilator-associated bacterial pneumonia (HABP/VABP) caused by the following susceptible Gram-negative microorganisms: Klebsiella pneumoniae, Enterobacter cloacae, Escherichia coli, Serratia marcescens, Proteus mirabilis, Pseudomonas aeruginosa, and Haemophilus influenzae in patients 18 years of age or older. This expanded use is based on positive results from a pivotal Phase 3 study evaluating the efficacy and safety of AVYCAZ for the treatment of adult patients with HABP/VABP. The sNDA received priority review from FDA based on the Qualified Infectious Disease Product (QIDP) designation for the HABP/VABP indication.

Source: Allergan plc

FDA NEWS/BULLETINS/ADVISORIES/SAFETY ALERTS

Becton-Dickinson (BD) Syringes Used to Store Compounded or Repackaged Drugs: FDA Alert Problematic Rubber Stoppers Replaced

[Posted 01/12/2018]

ISSUE: Becton-Dickinson (BD) informed FDA that it is no longer using the rubber stopper material associated with loss of drug potency in its general use syringes, and BD has instead returned to a rubber stopper it used previously in the syringes. In 2015, FDA initially alerted health care professionals not to administer compounded and repackaged drugs stored in certain sizes of general use BD syringes, based on reports of an interaction with the rubber stopper that caused some drugs stored in these syringes to lose potency when not used immediately. As stated previously, the general use BD syringes are cleared for immediate use in fluid aspiration and injection, but not for use as a closed container storage system for drug products, and FDA has not established the suitability of these syringes (with either rubber stopper) for that purpose.

BACKGROUND: The FDA's original alert in August 2015 applied to compounded or repackaged drugs that have been stored in 3 mL and 5mL BD syringes; FDA expanded its alert in September 2015 to include certain additional syringe sizes including 1mL, 10mL, 20mL and 30mL BD syringes, and BD oral syringes.

RECOMMENDATION: Health care professionals may contact BD at (201) 847-6800 for more information and for confirmation that the specific lots of syringes used by a facility contain the new stoppers

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)

Varubi (rolapitant) Injectable Emulsion: Health Care Provider Letter - Anaphylaxis and Other Serious Hypersensitivity Reactions

[Posted 01/16/2018]

ISSUE: Anaphylaxis, anaphylactic shock and other serious hypersensitivity reactions have been reported in the post marketing setting, some requiring hospitalization. These reactions have occurred during or soon after the infusion of Varubi (rolapitant) injectable emulsion. Most reactions have occurred within the first few minutes of administration. Symptoms of anaphylaxis can include wheezing or difficulty breathing; swelling of the face or throat; hives or flushing; itching; abdominal cramping, abdominal pain or vomiting; back pain or chest pain; hypotension or shock.

See the Health Care Provider Letter for important prescribing information to reflect the new safety information.

BACKGROUND: Varubi (rolapitant) injectable emulsion is approved to prevent delayed phase chemotherapy-induced nausea and vomiting (emesis). Varubi is approved in adults in combination with other drugs (antiemetic agents) that prevent nausea and vomiting associated with initial and repeat courses of vomit-inducing (emetogenic and highly emetogenic) cancer chemotherapy.

RECOMMENDATION: Healthcare professionals must be vigilant for signs of hypersensitivity or anaphylaxis in all patients receiving Varubi (rolapitant) injectable emulsion, both during and following its administration. It is advised that Healthcare professionals consult with patients to determine if the patient is hypersensitive to any component of the product (including soybean oil). Furthermore, as cross reactions to other allergens is possible, patients with known allergies to legumes or other related allergens should be monitored closely. Patients with a potential hypersensitivity should not be administered Varubi (rolapitant) injectable emulsion. Appropriate treatment should be available for immediate use in the event of an anaphylactic reaction during treatment with Varubi (rolapitant) injectable emulsion.

If anaphylaxis or any other serious hypersensitivity/infusion reaction occurs,

- Administration of Varubi (rolapitant) injectable emulsion should be stopped immediately.
- Appropriate medical management (including epinephrine and or antihistamines) should be initiated, and
- Varubi (rolapitant) injectable emulsion should be permanently discontinued.

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: Department of Health and Human Services

Levofloxacin in 5 Percent Dextrose 250mg/50mL by AuroMedics: Recall - Presence of Visible Particulate Matter

[Posted 01/18/2018]

ISSUE: AuroMedics Pharma LLC is voluntarily recalling one lot of Levofloxacin in 5% Dextrose Injection 250mg/50mL in a Single-Use flexible container NDC 55150-243-46, Lot CLF160003, Expiry date May 2018, to the hospital level. The product has been found to contain visible particulate matter tentatively identified as mold. This problem was discovered as a result of a product complaint in which the contents of one flexible bag was found to contain white particulate matter.

Use of a non-sterile injectable product could result in fatal infections in a broad array of patients.

BACKGROUND: Levofloxacin injection is indicated for the treatment of adults (≥18 years of age) with mild, moderate, and severe infections. The product can be identified as a single-use, ready-to-use flexible plastic infusion bag in a foil laminate overwrap. AuroMedics shipped the lot to wholesalers and/or hospitals nationwide September 19 through October 31, 2017.

RECOMMENDATION: AuroMedics Pharma LLC is notifying its distributors and customers by recall letters and is arranging for return/replacement etc. of all recalled product. Consumers/distributors/retailers that have the product lot which is being recalled should immediately stop using and return to place of purchase/contact their doctor as appropriate. Consumers with questions regarding this recall can contact AuroMedics Customer Service Monday through Friday from 9:00AM to 5:00PM EST at 888-238-7880 Option 1. If you need assistance in returning your product or have questions about the recall process, contact Inmar at 800-967- 5952, Monday through Friday from 8:30 AM to 5:00 PM EST. 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: Department of Health and Human Services

Multiple Drug Products by Flawless Beauty: Recall - Misbranded or Unapproved

[Posted 01/22/2018]

ISSUE: Flawless Beauty, LLC is voluntarily recalling all lots of nineteen different products sold individually or as part of multi-unit kits alleged by the U.S. Food and Drug Administration ("FDA") to be misbranded or unapproved new drugs pursuant to the Federal Food, Drug, and Cosmetic Act. The FDA believes that these drugs present serious public health risks. View the recall notice for a complete list of affected products. To date, Flawless Beauty has not received any reports of adverse events related to this recall.

BACKGROUND: All products were sold and distributed over the Internet to U.S. and foreign customers. All glutathione products were sold in multi-vial whitening kits, either alone or in combination with ampules of vitamin C and sterile water. Vials or ampules of vitamin C or sterile water purchased separately or as part of these whitening kits are also recalled:

RECOMMENDATION: Flawless Beauty is notifying its customers by sending recall letters and is arranging for return of all recalled products. Consumers, distributors & retailers that have the products which are being recalled should stop using & return to Flawless Beauty. Consumers with questions regarding this recall can contact Flawless Beauty by phone at 1-917- 831-5948 or jack@flawlessbeautyandskin.com. Monday-Friday, 9:30AM – 5:30 PM, EST. Consumers should contact their physician or healthcare provider if they have experienced any problems that may be related to taking or using these products.

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: Department of Health and Human Services

Basic Drugs Brand of Senna Laxative by Magno-Humphries Laboratories: Recall - Mislabeling

[Posted 01/23/2018]

ISSUE: Magno-Humphries Laboratories, Inc., is voluntarily recalling one lot of Basic Drugs Brand of Senna Laxative tablets, 8.6mg Sennosides to the consumer level due to a customer complaint that their bottle labeled as Senna Laxative actually contained Basic Drugs Brand of Naproxen Sodium 220mg. Naproxen Sodium 220mg tablet is used as a pain reliever and is a nonsteroidal anti-inflammatory drug (NSAID).

Unintentional consumption of naproxen sodium potentially could result in fatal adverse events in patients with underlying illnesses, including known allergy to the hidden ingredients, cardiac, gastrointestinal, hepatic, and renal conditions as well as patients who recently undergone cardiac bypass graft surgery. Patients may inadvertently overdose by taking another NSAID concurrently, thus increasing the risk for NSAID associated adverse events, which include but are not limited to, myocardial infarction, stroke, congestive heart failure, renal toxicity, bleeding, ulceration, or perforation of the stomach or the intestines. The populations most at risk are: children, pregnant women, nursing mothers, and surgical patients. Magno-Humphries Laboratories, Inc. has not received any reports of adverse events related to this recall to date.

BACKGROUND: Basic Drugs Brand Senna Laxative, 8.6mg Sennosides, tablet is used as a laxative (natural) to relieve constipation and is packaged in 100-count bottles, with an outer neck seal and a child resistant cap, with Lot#352300, EXP: 01/19 printed on the bottom of the bottle. Basic Drugs Brand Senna Laxative tablets were distributed Nationwide in the USA to secondary distributors, retail pharmacies and via the internet.

RECOMMENDATION: Magno-Humphries Laboratories, Inc. has notified its distributor by e-mail and is arranging for the return of all recalled products. Consumers, distributors or retailers that have Basic Drugs Brand Senna Laxative Lot#352300 which are being recalled should stop using the product and return it to Magno-Humphries Laboratories, Inc. or their distributor. Consumers with questions regarding this recall can contact Magno-Humphries Laboratories, Inc. by (503) 684-5464, (800) 935-6737 [state days of the week] between 9am to 5pm PT or by email at info@magno-humphries.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: Department of Health and Human Services

Nexterone (amiodarone HCl) 150 mg/100 mL Premixed Injection: Recall - Presence Of Particulate Matter

[Updates 01/23/2018]

ISSUE: Baxter International announced it is voluntarily recalling one lot of Nexterone (amiodarone HCl) 150 mg/100 mL Premixed Injection – distributed between 8/23/2017 and 10/2/2017 in the United States to wholesalers/distributors and healthcare facilities – due to the potential presence of particulate matter. The particulate matter may have entered the solution during the manufacturing process. The recalled lot number is NC109925. The particulate matter was identified by Baxter during a stability study, and was consistent with polyethylene, the primary constituent of the film and ports used to manufacture the bag in which Nexterone is packaged. Intravenous administration of a solution containing sterile particulate matter may lead to adverse health consequences. The extent and severity of harm depends on the size, number and composition of the foreign material and the patient's underlying medical condition. In the absence of in-line filtration, these particles may cause local vein irritation, inflammatory reaction, aggravation of preexisting infections, allergic reactions, phlebitis, pulmonary emboli, pulmonary granulomas, immune system dysfunction, pulmonary dysfunction, pulmonary infarction, and systemic embolization.

BACKGROUND: Nexterone is a prescription antiarrhythmic agent indicated for initiation of treatment and prophylaxis of frequently recurring ventricular fibrillation and hemodynamically unstable ventricular tachycardia in patient's refractory to other therapy.

RECOMMENDATION: Anyone with an existing inventory of the recalled lot should stop use and distribution and quarantine the product immediately. Inform health care professionals in your organization of this recall. If you have further distributed the recalled product, please notify any accounts or additional locations which may have received the recalled product from you. Further, please instruct entities that may have received the recalled product from you that if they redistributed the product, they should notify their accounts, locations or facilities of the recall to the hospital/retail user level. Recalled product should be returned to Baxter for credit by contacting Baxter Healthcare Center for Service at 888-229-0001, Monday through Friday, between 7 a.m. and 6 p.m. Central Time. Customers with questions regarding this recall can contact Baxter Corporate Product Surveillance at 800-437-5176, Monday through Friday, between 8 a.m. and 5 p.m. Central Time. Customers should contact their physician or healthcare provider if they have experienced any problems that may be related to using this 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

[01/23/2018 - Press Release - Baxter]
[11/15/2017 - Press Release - Baxter]

Source: Department of Health and Human Services

Imodium (loperamide) for Over-the-Counter Use: Drug Safety Communication – FDA Limits Packaging To Encourage Safe Use

[Posted 01/30/2018]

ISSUE: To foster safe use of the over-the counter (OTC) anti-diarrhea drug loperamide, FDA is working with manufacturers to use blister packs or other single dose packaging and to limit the number of doses in a package. FDA continues to receive reports of serious heart problems and deaths with much higher than the recommended doses of loperamide, primarily among people who are intentionally misusing or abusing the product, despite the addition of a warning to the medicine label and a previous communication. Loperamide is a safe drug when used as directed. Loperamide acts on opioid receptors in the gut to slow the movement in the intestines and decrease the number of bowel movements. It is safe at approved doses, but when much higher than recommended doses are taken, it can lead to serious problems, including severe heart rhythm problems and death. FDA is continuing to evaluate this safety issue and will update the public when more information is available.

BACKGROUND: Loperamide is FDA-approved to help control symptoms of diarrhea, including Travelers' Diarrhea. The maximum approved daily dose for adults is 8 mg per day for OTC use and 16 mg per day for prescription use. It is sold under the OTC brand name Imodium A-D, as store brands, and as generics. FDA previously issued a Drug Safety Communication about this safety concern in 2016, and added warnings about serious heart problems to the drug label of prescription loperamide and to the Drug Facts label of OTC loperamide products.

RECOMMENDATION: Patients and consumers should only take the dose of loperamide directed by your health care professionals or according to the OTC Drug Facts label, as taking more than prescribed or listed on the label can cause severe heart rhythm problems or death. If you are using OTC loperamide and your diarrhea lasts more than 2 days, stop taking the medicine and contact your health care professional. Seek medical attention immediately by calling 911 if you or someone taking loperamide experiences any of the following, and tell health care professionals the person has been taking loperamide:

- Fainting
- Rapid heartbeat or irregular heart rhythm
- Unresponsiveness, meaning that you can't wake the person up or the person doesn't answer or react normally

Health care professionals should be aware that using much higher than recommended doses of loperamide, either intentionally or unintentionally, can result in serious cardiac adverse events, including QT interval prolongation, Torsades de Pointes or other ventricular arrhythmias, syncope, and cardiac arrest. In cases of abuse, individuals often use other drugs together with loperamide in attempts to increase its absorption and penetration across the blood-brain barrier, inhibit loperamide metabolism, and enhance its euphoric effects. Some individuals are taking high doses of loperamide to treat symptoms of opioid withdrawal. If loperamide toxicity is suspected, promptly discontinue the drug and start necessary therapy. For some cases of abnormal heart rhythms in which drug treatment is ineffective, electrical pacing or cardioversion may be required. Also counsel patients to take loperamide only as prescribed or according to the OTC Drug Facts label and advise patients that drug interactions with commonly used medicines may increase the risk of serious cardiac events.
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)

Ocaliva (obeticholic acid): Drug Safety Communication - Boxed Warning Added To Highlight Correct Dosing

[Posted 02/01/2018]

ISSUE: FDA is warning that the liver disease medicine Ocaliva (obeticholic acid) has been incorrectly dosed daily instead of weekly in patients with moderate to severe primary biliary cholangitis (PBC), a rare chronic liver disease, increasing the risk of serious liver injury. To ensure correct dosing and reduce the risk of liver problems, FDA is clarifying the current recommendations for screening, dosing, monitoring, and managing PBC patients with moderate to severe liver disease taking Ocaliva. FDA is adding a new Boxed Warning, FDA's most prominent warning, to highlight this information in the prescribing information of the drug label. FDA is also requiring a Medication Guide for patients to inform them about this issue. As a condition of approval, FDA required the manufacturer of Ocaliva, Intercept Pharmaceuticals, to continue studying the medicine in patients with advanced PBC. These clinical trials are currently ongoing and FDA expects to receive results in 2023. FDA is adding the additional warnings to the drug label after receiving reports that Ocaliva is being given to PBC patients with moderate to severe liver impairment more often than is recommended in the prescribing information, resulting in liver decompensation, liver failure, and sometimes death. FDA will continue to monitor this medicine and will update the public if new information becomes available.

BACKGROUND: This is an update to the MedWatch safety alert for Ocaliva (obeticholic acid) - Increased Risk of Serious Liver Injury, issued 09-21-2017.

RECOMMENDATION: Health care professionals should follow the Ocaliva dosing regimen in the drug label, which is based on calculating a Child-Pugh score in PBC patients with suspected liver cirrhosis before treatment to determine their specific classification and starting dosage (see Table for the Clarified Ocaliva Dosage Regimen and more detailed instructions). Dosing higher than recommended in the drug label can increase the risk for liver decompensation, liver failure, and sometimes death. Routinely monitor all patients for biochemical response, tolerability, and PBC progression, and re-evaluate Child-Pugh classification to determine if dosage adjustment is needed. Close monitoring is recommended for patients at an increased risk of liver decompensation, including those with laboratory evidence of worsening liver function (e.g., total bilirubin, INR, albumin) or progression to cirrhosis. Educate patients and caregivers on the symptoms of worsening liver function. Temporarily stop Ocaliva in those with laboratory or clinical evidence of worsening liver function that may indicate decompensation and monitor the patient's liver function. If a patient's condition returns to baseline, weigh the potential risks and benefits of restarting Ocaliva. Re-initiate, using the recommended starting dosage based on Child Pugh classification. Consider discontinuing Ocaliva in patients who have experienced clinically significant liver-related adverse reactions. Patients should be aware that your prescriber should do regular tests to check how well your liver is working while you are taking Ocaliva. If your liver problems get worse, your dose may need to be changed or stopped. Report new or worsening severe skin itching to your health care professional. See the Drug Safety Communication for additional information.

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: Department of Health and Human Services

Gericare Eye Wash by Kareway Products: Recall - Potential Product Contamination

[Posted 02/02/2018]

ISSUE: Kareway Products, Inc. is voluntarily recalling 60,000 lots of Gericare Eye Wash, Sterile Eye Irrigation Solution, 4 fluid ounces to the hospital, retail or consumer level. The product has been found to have potential microbial contamination which compromises sterility. Use of the affected product could be calamitous for any population due to a probability of a potentially sight threatening eye infection or impairment.

BACKGROUND: The product is used as eye wash to clean, refresh, soothe eyes for daily use or emergency eye cleansing by flushing foreign material. It is packaged in 4 fluid ounce (118 ml) bottles. The affected Gericare Eye Wash, Sterile Eye Irrigation Solution lots include the following Lot#86041601 and expiration date of 09/2019. The product can be identified by UPC 3-57896- 18604-3. The product was distributed nationwide to wholesale businesses.

RECOMMENDATION: Kareway Products is notifying its distributors and customers by recall letter and is arranging for return or disposal of all recalled products. Consumers and businesses that have product which is being recalled should stop using and selling them immediately. Consumers with questions regarding this recall can contact the Recall Department at 310-532- 0009 or recall@kareway.com available Monday through Fridays from 08:30 am to 05:30 pm (Pacific Time). 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: Department of Health and Human Services

STUDIES AND RECENT TOPICS

Deaths And Hospitalizations Rise As Flu Season Hits Full Swing
January 10, 2018

With flu season now in full swing — causing widespread illness in 46 states — health officials across the country are reporting waves of misery, rising hospitalizations and some deaths. It is still too soon to say just how bad this flu season will be, but there are troubling signs in some places.

Source: usatoday.com

Keep These Cough Medicines Away From Kids, FDA Says
January 11, 2018

Cough medications that contain opioids like codeine should never be given by kids, and the medicines will now need to be labeled to make that clear, the Food and Drug Administration said Thursday. They'll also carry bigger warnings about their dangers to adults, the FDA said.

Source: nbcnews.com

Many Pregnant Women Are Being Prescribed Potentially Dangerous Antibiotics: CDC
January 11, 2018

Early pregnancy can come with its fair share of challenges: nausea, exhaustion and urinary tract infections (UTIs). About 8 percent of pregnant women get UTIs, and many more are found to have bacteria in their urine without symptoms, so-called "asymptomatic bacteriuria," which can later lead to infection.

Source: abcnews.go.com

Tamper-Resistant Opioids May Not Ease Addiction Crisis: Study
January 11, 2018

Tamper-resistant opioid pills -- one attempt to curb prescription painkiller abuse -- aren't stopping overuse and overdosing, at least in Australia, new research shows. "This formulation was developed with the specific aim of reducing tampering, targeting behaviors such as injection or snorting," said the study's lead author, Briony Larance.

Source: healthday.com

CDC Says, 'There's Lots Of Flu In Lots Of Places.' And It's Not Going Away Anytime Soon.
January 12, 2018

A nasty flu season is in full swing across the United States, with a sharp increase in the number of older people and young children getting hospitalized, federal health officials said Friday.

Source: washingtonpost.com

FDA Expects IV Fluid Shortage To Improve In Coming Weeks, Months

January 16, 2018

The U.S. Food and Drug Administration said on Tuesday it expects a shortage of intravenous saline fluids for hospitals due to damage to key manufacturing facilities in Puerto Rico to improve over the coming weeks and months.

Source: reuters.com

ADHD Drug Use Soars Among Young Women

January 18, 2018

Though drugs to treat attention-deficit/hyperactivity disorder (ADHD) are typically taken by children and young teens, scores of women of childbearing age are now using the medications, a new government report shows. That's important, health experts say, because the exact effects on the fetus of ADHD meds such as Ritalin or Concerta simply aren't known.

Source: healthday.com

A Cheap And Easy Blood Test Could Catch Cancer Early

January 18, 2018

A simple-to-take test that tells if you have a tumor lurking, and even where it is in your body, is a lot closer to reality—and may cost only $500. The new test, developed at Johns Hopkins University, looks for signs of eight common types of cancer. It requires only a blood sample and may prove inexpensive enough for doctors to give during a routine physical.

Source: technologyreview.com

The Battle Over Neulasta Biosimilars In The US: What's Coming In 2018

January 18, 2018

2016 and 2017 were difficult years for companies trying to win US Food and Drug Administration (FDA) approval for biosimilars of Amgen's blockbuster for treating side effects from chemotherapy.
Source: raps.org

Drug Companies Told To Do More To Tackle 'Superbug' Crisis

January 23, 2018

Drugmakers’ response to the threat posed by “superbugs” remains patchy even after years of warnings, according to the first analysis of individual companies’ efforts to tackle the antibiotic resistance crisis.

Source: reuters.com

FDA Works to Strengthen Oversight of Compounding Pharmacies
January 23, 2018

The FDA's oversight of compounded drug manufacturing is evolving five years after a tragedy that tarnished the industry. The agency Jan. 19 released a 2018 compounding policy priorities plan, which, among other things, lays out how the agency will address quality standards for outsourcing facilities that make large amounts of compounded drugs.

Source: bna.com

U.S. Lets More Healthcare Workers Prescribe Opioid Addiction Treatment
January 23, 2018

The U.S. Drug Enforcement Administration said on Tuesday it had changed a regulation to allow more healthcare professionals to prescribe a medication used to treat opioid addiction, opening up access in rural America where there are few doctors.

Source: reuters.com

Herbal Supplements May Be Dangerous When You Take Certain Prescription Drugs
January 24, 2018

A number of common herbal supplements, including green tea and Ginkgo biloba, can interact with prescription medications, according to a new research review published in the British Journal of Clinical Pharmacology. These interactions can make drugs less effective—and may even be dangerous or deadly.

Source: time.com

Growing number of young children dying from flu
January 25, 2018

The family of a 12-year-old boy in Florida is grieving after flu is suspected in causing his death on Tuesday. Dylan Winnik had sniffles and was exhausted; symptoms his family initially thought were a cold. Now, they believe it was flu.

Source: nbcnews.com

Pharmaceutical Industry Brings Cannabis Drug to FDA After Decades of U.S. Denying Value of Marijuana
January 25, 2018

A prescription medication made from marijuana might be approved by the Food and Drug Administration this summer. The advance could be a huge step forward for people with epilepsy, which this drug treats. And it would signal a new—some would say long-delayed—embrace of cannabis-based medications in the U.S.

Source: newsweek.com

Plurality of Poll Respondents OK With Amazon Handling Mail-Order Drugs
January 26, 2018

If Amazon.com Inc. enters the health care business, as some analysts expect, recent polling suggests consumers are more comfortable with the idea of using Amazon as a pharmacy than they are with the possibility of using its voice-activated technology to handle other aspects of their health care.

Source: morningconsult.com

FDA approves generic equivalent to Viread
January 31, 2018

The FDA has granted Aurobindo Pharma Limited final approval for its Abbreviated New Drug Application for Tenofovir Disoproxil Fumarate Tablets, an AB-rated generic equivalent to Viread. The generic tablets are indicated for the treatment of HIV-1 infection and chronic hepatitis B.

Source: chaindrugreview.com

Mumps booster and new shingles shot are part of new vaccine guidance
February 5, 2018

New adult vaccination recommendations published Monday feature a booster shot for mumps in case of outbreaks and the new and improved shingles vaccine. People over 50 should get the new Shingrix vaccine, which protect both better and more safely than the older shingles vaccine, the Advisory Committee on Immunization Practices says. People who already had the old vaccine can get the new one, too.

Source: nbcnews.com

Personalized Medicine Approvals Continued to Surge in 2017
February 6, 2018

The FDA made significant strides to advance patient care in 2017, including the pioneering of developments in personalized medicine. Remarkably, more than 1 in 4 drugs approved over the past 4 years have been a personalized medicine, according to a new report from the Personalized Medicine Coalition (PMC). The FDA approved 16 new personalized treatments in 2017 alone compared with a decade ago when these drugs only accounted for less than 10% of approvals, the PMC noted.

Source: specialtypharmacytimes.com

RECALLS

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	BLUE PEARL capsules, 500mg, 1-count packets, Distributed by Blue Pearl Long Beach, CA UPC 8 4704600978 5	I	All lots	Marketed Without An Approved NDA/ANDA: FDA analysis found this product to contain undeclared sildenafil, an FDA approved drug for the treatment of erectile dysfunction, making this an unapproved drug for which safety and efficacy have not been established and therefore, subject to recall.	Blue Fusion Natural 2942 E Chapman Ave # 132 Orange, CA 92869-3745
Drug	Pantoprazole Sodium for Injection, 40 mg per vial, single dose vial, Rx only, Manufactured in India for: AuroMedics Pharma LLC, 6 Wheeling Road, Dayton, NJ 08810. NDC 55150-202-00	I	Lot # CPO170035	Presence of Particulate Matter: One vial from a lot of Pantoprazole Sodium for Injection (40 mg) contained a piece of glass.	AuroMedics Pharma LLC 279 Princeton Hightstown Rd East Windsor, NJ 08520-1401
Drug	Linezolid Injection 600 mg/300 mL (2 mg/mL), 300 mL Single-use, ready-to-use flexible plastic infusion bags in a foil laminate overwrap, Rx only, Mfd in India for: AuroMedics Pharma LLC, Dayton, NJ --- NDC 55150-242-51	I	Lot # CLZ160007, Exp August 2018	Presence of Particulate Matter; white particulate matter identified as mold was found in one bag	AuroMedics Pharma LLC 279 Princeton Hightstown Rd East Windsor, NJ 08520-1401
Drug	Ampicillin and Sulbactam for Injection 1.5 g vial, sterile Dry Powder for injection, 10 vials per carton, Distributed by AuroMedics Pharma LLC. 279 Princeton-Hightstown Rd. E. Windsor, NJ 08520, NDC 55150-116-20	I	Lot # AF0117001-A	Presence of Particulate Matter: A confirmed customer report was received for the presence of visible particulate matter, confirmed as glass, within a single vial.	Aurobindo Pharma Ltd. Unit Xii, Lactam Formulation Plant Survey No. 314, Bachupally, Quthbullapur Hyderabad
Drug	Ibuprofen Tablets, USP 200 mg, 6 x 6500 Caplets (Capsule-Shaped Tablets) bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-117-30.	II	Lot #: HH6001, HH6002, Exp 04/18	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Earth's Care Eczema Lotion (2% Colloidal Oatmeal) Skin Protectant with Aloe and Almond Oil, 8 fl. oz. (237 mL) HPDE bottle, Distributed by: Earth's Care Natural Products, Inc. Long Beach, California 90805, NDC 24286-1569-08, UPC 85730700307	II	Batch # 4317; Exp. 02/19 Batch # 4393; Exp. 05/19 Batch # 4437; Exp. 07/19	Microbial Contamination of Non-Sterile Products	DLC Laboratories, Inc. 7008 Marcelle St Paramount, CA 90723-4839
Drug	Day Cream SPF15 Crème de jour FPS 15, { Avobenzone 2%, Octinoxate 7%, Oxybenzone 5%} 15 ml / 0.5 fl. oz. jar. Made in Canada, Kamins Dermatologics Inc. Montreal, Quebec H9R 2Y6. Distributed by Kamins Dermatologics Montreal, Quebec H9R 2Y6 Made in Fabrique au Canada. UPC code 6	II	Lot # J146C, EXP 02/19	Failed Stability Specifications: stability failure at 12 months, long term RT conditions	Odan Laboratories Ltd 325 Stillview Ave Pointe-Claire
Drug	Pravastatin Sodium Tablets, USP, 10 mg, 30-count bottles, packaged in 12 x 30 tablets for individual patient dispensing per pharmacy dispenser cartons, Rx only, Packaged for: International Laboratories, LLC. St. Petersburg, FL 33710, NDC 54458-927-16.	II	Lot # 117093A, Exp. 06/19	Presence of Foreign Tablets/Capsules: bottles could contain both pravastatin sodium 10 mg and 20 mg tablets in the same bottle.	International Laboratories, Inc. 6950 Bryan Dairy Rd Ste A Seminole, FL 33777-1606
Drug	Dry to Normal Skin Starter Kit, Trousse debutante pour peau seche a normale. Kit includes: (Vegetable Cleanser (60 ml / 2 oz.), Night Cream (15 g / 0.5 oz.), Day Cream SPF15 {Octinoxate 7%, Avobenzone 2% and Oxybenzone 5%} (15 g / 0.5 oz.), Eye Cream (6 g)	II	Lots # J203, J204, EXP 02-2018; J228, J274, EXP 09-2018	Failed Stability Specifications: stability failure at 12 months, long term RT conditions.	Odan Laboratories Ltd 325 Stillview Ave Pointe-Claire
Drug	DOXOrubicin Hydrochloride Liposome Injection, 20 mg/10 ml (2 mg/mL), 10 mL Single Use Vial, Distributed by: Sun Pharmaceutical CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies. Industries, Inc. Cranbury, NJ 08512. Manufactured by: Sun Pharmaceutical Ind. Ltd. Halol-Baroda Highway. Halol-389 350, Gujarat, India. NDC 47335-049-40	II	Lot # JKS0403A Exp 02/2019	Lack Of Assurance Of Sterility	Sun Pharmaceutical Industries, Inc. 270 Prospect Plains Rd Cranbury, NJ 08512-3605

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Ibuprofen Tablets, USP 200 mg, 6 x 6500 Tablets bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-136-20.	II	Lot #: HI6001, HI6002, HI6003, Exp 02/18	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies.	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788
Drug	Ibuprofen Tablets, USP 200 mg, 6 x 6500 Tablets bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-114-30	II	Lot #: HK6001, HK6002, HK6003, HK6004, HK6005, HK6006, HK6007, HK6008, HK6009, HK6010, HK6011, HK6012, HK6013, HK6014, HK6015, Exp 09/18	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies.	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788
Drug	Ibuprofen Tablets, USP 400 mg, 6 x 3500 Tablets bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-121-29.	II	Lot #: HK6001, HK6002, HK6003, HK6004, HK6005, HK6006, HK6007, HK6008, HK6009, HK6010, HK6011, HK6012, HK6013, HK6014, HK6015, Exp 09/18	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies.	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788
Drug	Ibuprofen Tablets, USP 600 mg, 6 x 2500 Tablets bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-122-28.	II	Lot #: HN6004, HN6005, HN6006, HN6007, HN6008, HN6009, HN6010, HN6011, HN6012, HN6013, HN6014, Exp 03/18; HN6015, HN6016, HN6017, HN6018, HN6019, HN6020, HN6021, HN6022, HN6023, Exp 04/18; HN6024, Exp 07/18; HN6025, HN6026, HN6027, Exp 09/18	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies.	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Ibuprofen Tablets, USP 800 mg, 6 x 1900 Tablets bulk packed in double polybag shipper packs for further packaging, Rx only, Manufactured by: Marksans Pharma Ltd., Plot No. L-82, L-83, Verna Indl. Estate, Verna, Goa - 403 722, India, NDC 25000-123-27.	II	Lot #: HM6067, HM6068, HM6069, HM6070, HM6072, HM6072, HM6073, HM6074, HM6075, HM6076, HM6077, HM6078, HM6079, HM6080, HM6081, HM6082, HM6083, HM6084, HM6085, HM6086, HM6087, HM6088, HM6089, HM6090, HM6091, HM6092, HM6093, HM6094, HM6095, HM6096, Exp 02/18; HM6097, HM6098, HM6099, Exp 03/18; HM6100, HM6101, HM6102, HM6103, HM6104, HM6105, HM6106, HM6107, HM6108,	CGMP Deviations: Various strengths of ibuprofen tablets/caplets are being recalled due to complaints of odor related to CGMP deficiencies.	Marksans Pharma Inc. Suite # 401, 4th Floor Room No. 430, 150 Motor Parkway Hauppauge, NY 11788
Drug	Pravastatin Sodium Tablets, USP, 20 mg, 30-count bottles, packaged in 12 x 30 tablets for individual patient dispensing per pharmacy dispenser carton, Rx only, Packaged for: International Laboratories, LLC. St. Petersburg, FL 33710, NDC 54458-926-16.	II	Lot: 117103A, Exp. 03/19	Presence of Foreign Tablets/Capsules: bottles could contain both pravastatin sodium 10 mg and 20 mg tablets in the same bottle.	International Laboratories, Inc. 6950 Bryan Dairy Rd Ste A Seminole, FL 33777-1606

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Glenmark Mometasone Furoate Cream, USP, 0.1%, 45 g Rx Only Manufactured by: Glenmark Pharmaceuticals Ltd. Village Manufactured for: Glenmark Pharmaceuticals Inc., USA Mahwah, NJ 07430 NDC 68462019255 UPC 3684620192559	II	Batch Number: 05170598; Exp. 03/19	CGMP Deviations	Glenmark Pharmaceuticals Inc., USA 750 Corporate Dr Mahwah, NJ 07430-2009
Drug	Neutrogena Acne Proofing whipped foam cleanser, (Salicylic Acid 2%), aerosolized product in a can, NET WT. 5 OZ (141 g) , Distributed by Johnson & Johnson Consumer Inc. Skillman, NJ 08558, UPC 0 70501 11131 4	II	Lot #: 16217F70, 16317F70, 18317F56, 18417F56, 18517F56, 18617F56, 19517F57 19617F57,19717 F57, 19817F57, Exp. 05/2019.	Defective Container: products showed leakage (bubbles, foaming) of propellant and product from the container valve cup area.	Johnson & Johnson 199 Grandview Rd Skillman, NJ 08558-1311
Drug	Neutrogena deep clean purifying whipped foam cleanser, (Salicylic Acid 0.5%), aerosolized product in a can, NET WT. 5 OZ. (141 g) Distributed By: Johnson & Johnson Consumer Inc. Skillman, NJ 08558. UPC: 0 70501 10053 0	II	Lot #:15917F54, 16017F54, Exp. 05/2019; 15817F69,15917 F69, Exp. 04/2019; 20017F55, 20117F55, Exp. 06/2019.	Defective Container: products showed leakage (bubbles, foaming) of propellant and product from the container valve cup area.	Johnson & Johnson 199 Grandview Rd Skillman, NJ 08558-1311
Drug	Aplicare Povidone-Iodine Prep Pad, Antiseptic, Sterile Solution, Active Ingredient: Povidone-iodine USP 10%. Aplicare, INC., Meriden, CT 06450 USA. NDC: 52380-0111-1	II	Part # P-1001; Lots: 58471; 59003; 59723; 60373; 60807; 61187; 61523; 61998; 63974; 64701; 65864 Part # P-1001-8S Lots: 58368; 58371; 58472; 58499; 58686; 58687; 58688; 58816; 58817	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Vaginal Delivery CDS Pack, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: CDS830006I; Lots: 17IB3974	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Vitrectomy CDS Pack, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: CDS984258F; Lots: 177B1083	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline RAD NECK ENT TRAY Pack, Single Use Only. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKA1220; Lots: 17FA1301	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Newborn Kit. Packaged for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKL1133; Lots: 17IA0348; 17GA0975; 17IA0348	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Concordia Trunk Kit. Packaged for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKM1403; Lots: 17BA1782	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Concordia Nurse Bag Kit. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKM1425; Lots: 17BA1030	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Pediatric IV Kit. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKP1000A; Lots: 17AA2252	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline CNTRL Line Removal Kit Scripps. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYKSCRIPPSCL1; Lots: 17HA1756	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Trunk Kit, Non-sterile. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYKTRUNK1; Lots: 17FA0227; 17FA0470; 17FA1431; 17HA0258; 17HA0259	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline TRAY, CATHETER CARE, LIDDED. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYND12110; Lots: 16KA2117; 16LA1083; 15GA1298; 16KA0905; 16KA2117; 16BA0141	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Suture Removal Tray. Sterile. Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYND70900; Lots: 17GB6098; 16KB8714; 17GB5103; 17EB4268; 17BB3409; 17SB1821; 17OB8226; 16QB7895; 17EB7214; 16LB5336; 17QB4767; 17MB3722; 17PB7167; 17EB0363; 17DB2103; 17FB2572 Pack Number: DYND70900H; Lots: 16KB8714; 16KB8714; 17EB4268; 17OB8226	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	SPIRIVA HandiHaler (tiotropium bromide inhalation powder) 18 mcg/capsule (90 capsules (unit dose blisters) per box, Rx Only, Made in Germany, Distributed by: Boehringer Ingelheim (BI) Pharmaceuticals, Inc., Ridgefield, CT 06877, NDC 0597-0075-47	II	Lot # 606478; Exp. 03/18	Failed Stability Specifications	Boehringer Ingelheim Pharmaceuticals, Inc. 900 Ridgebury Rd Ridgefield, CT 06877-1058
Drug	Medline IV Start Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYND74077; Lots: 16GB2754; 17GB3103; 16IB7722; 17EB6063 Pack Number: DYND74077H; Lots: 17EB6063; 17GB3103	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Central Line Dressing Change Tray Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYND74661; Lots: 177B1602; 17RB9139; 16WB5199; 17CB7720; 17CB5841; 167B0074; 16GB8853; 16JB0621; 17EB4904; 16TB9798; 165B0465 Pack Number: DYND74661H; Lots: 17EB4904; 17CB5841; 17CB1032; 165B0465; 16WB5199; 17RB9139; 17CB7720; 16JB0621; 16TB9798;	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Incision and Drainage Tray Kit, Sterile, Single use only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDA1046H; Lots: 16LA0907	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline I&D Tray Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDA1109; Lots: 178B0923	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Sheath Removal Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60063	II	Pack Number: DYNDA1356; Lots: 17DB2820	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Wound Closure Tray, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDA1465; Lots: 17HB4903; 17CB8548	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline General Purpose Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDA1591; Lots: 17GB5136; 17PB2138	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline DC Line Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDC1971; Lots: 175B1999; Pack Number: DYNDC1971H; Lots: 17OB8570; 175B1999	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Dressing Change Tray Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDC2282; Lots: 16CB5897; 16PB9981	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline INCISION AND DRAINAGE TRAY Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDD1039; Lots: 17GB4725; 17HB4905	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Circumcision Tray Kit, Sterile, Single use only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDF1012E; Lots: 17SB5574	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Catheter Insertion Kit, Sterile. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDINSERTKIT; Lots: 17SB3347; 175B1052; 16JB3251; 16IB2940; 17CB4925	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline All Purpose Instrument Tray, Sterile. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDL1488; Lots: 177B0657; 17QB3332	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline General Purpose Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDL1648; Lots: 17FA0144	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Laceration Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDL1688; Lots: 17HB3112	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1018A; Lots: 17RB8658; 17HB1913	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline GHS Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1056; Lots: 17RB9450	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Staple Remover Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Northfield, IL 60060	II	Pack Number: DYNDR1067; Lots: 17PB4605 Pack Number: DYNDR1067H; Lots: 17PB4605	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline General Purpose Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1071; Lots: 17FA1640	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1109; Lots: 17NB0789; 17EB4269 Pack Number: DYNDR1109H; Lots 17EB4269	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1111; Lots: 17FB1191; 17HB1905 Pack Number: DYNDR1112A; Lots 177B0660; 175B2485	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Staple Remover Kit, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1118; Lots: 17SB4219; 175B2486	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1157; Lots: 177B0661 Pack Number: DYNDR1157H; Lots: 177B0661; 17QB1693	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline NICC Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1161; Lots: 17RB9449 Pack Number: DYNDR1161H; Lots: 17RB9449	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1165; Lots: 15HB6327; 15HB4355	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Skin Staple Remover Kit, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1184; Lots: 175B2484; 17HB1903	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Straight Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1186; Lots: 17EB0360; 177B1719 Pack Number: DYNDR1186H; Lots: 16PB7974; 17EB0360	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDR1195; Lots: 17AB1899	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Kit, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDR1199; Lots 16XB4041; 175B2487; 17PB8309	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Kit, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDS1010; Lots 15EB9408	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline General Purpose Instrument Set, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDS1014; Lots 17GB3416; 176B2045	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Liberator Medical Supply Catheter Insertion Tray, Sterile, Single Use Only. Distributed by: Liberator Medical Supply, INC. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNDT1022E; Lots 17QB4402; 17TB1979	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Irrigation W/Piston SYR Tray, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDT1094 and DYNDT1094H	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline IV Start Kit, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNDV1609; Lots 17GB1216	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medical Equipment Affiliates IV Start Kit, Sterile, Single Use Only. Packaged in Mexico for Medical Equipment Affiliates., Tahlequah, OK 74464	II	Pack Number: DYNDV39010; Lots 17QB8612	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Debridement Tray, Sterile, Single Use Only. Assembled in USA by Medline Industries, Inc., Mundelein, IL 6060	II	Pack Number: DYNDW1032	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Skin Biopsy Pack-LF, Sterile, Single Use Only. Packaged in USA by Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNJ0394028; Lots 17HK3191	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Incision and Drainage Tray, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNJ07147; Lots 1160B1635; 17RB8957; 16WB2198; 16GB6023; 16KB1547; 17DB1855 Pack Number: DYNJ07147H; Lots 17DB1855; 16WB2198; 17RB8957	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Pacemaker Implant Pack, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: DYNJ32856C; Lots 17SB6210; 17FB5359; 17SB6208	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Hip Replacement, Kit, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNJ48244B; Lots 17FB2504; 17HB2544	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Incision Drainage Kit, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: P888943; Lots 17RB8662 Pack Number: P888943H; Lots 17RB8662	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Anesthesia Kit, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: DYNJAA6606; Lots 178B1823; 17HB2055	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: MDS701550; Lots 16GB7687; 17HB5153; 16IB0427; 17GB3906; 17AB1937; 17CB7737; 16JB1136; 16JB1137 Pack Number: MDS701550H; Lots 16QB4583; 16IB0427; 17CB7737; 16MB6165; 17GB3906; 17AB1937; 16GB7687; 16JB1137; 17HB5153	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Incision and Drainage Tray, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: MDS70815; Lots 16LB2959; 173B1289; 17HB4108; 17FB6679; 16JB8627 Pack Number: MDS70815H; Lots 17FB6679	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in Mexico by Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: MDS708550; Lots 17GB4997; 17TB7125; 17RB7896; 17HB3784; 17HB4133; 17RB7895; 17FB1724; 17FB2572; Pack Number: MDS708550H; Lots 17GB4997; 17RB7896; 17PB5544; 17FB1724; 16JB1135; 17TB7125; 16SB9345; 17FB2572; 17FB2571; 17RB7895; 17HB3784; 16NB7654; 17FB1721;	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Professional Hospital Supply Suture Removal Kit, Sterile, Single Use Only. Packaged in Mexico for Professional Hospital Supply, Inc., 41980 Winchester Rd., Temecula, CA 92590	II	Pack Number: P524151; Lots 17HB5103; 17RB8741	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Pack Latex Safe, Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: P734457; Lots 17GB5158; 17RB8681; 17FB0926	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Professional Hospital Supply Suture Removal Kit, Sterile, Single Use Only. Packaged in Mexico for Professional Hospital Supply, Inc., 41980 Winchester Rd., Temecula, CA 92590	II	Pack Number: P888899; Lots 17RB8659; 17GB5162 Pack Number: P888899H; Lots 17RB8659	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Skin Stapler RMVR, Tray Sterile, Single Use Only. Packaged in Mexico for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: P888937; Lots 177B0658; 17QB8268 Pack Number: P888937H; Lots 17QB8268	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Abdominal Surgery II Pack-LF, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Number: PHS541637005	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: SD-1010; Lots 17CB8694; 17MB4778; 16KB5621	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Medline Suture Removal Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Mundelein, IL 60060	II	Pack Number: Z302-R; Lots 177B2075; 17RB9452; 17QB2640; 17CB4220 Pack Number: Z302-RH; Lots 177B2075; 17QB2640; 17RB9452; 17CB4220; 17NB1933; 17MB0084; 16LB3367	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Medline Incision & Drainage Tray, Sterile, Single Use Only. Packaged in USA for Medline Industries, Inc., Northfield, IL 60093	II	Pack Numbers: DYNDA1076, DYNDA1076H	Subpotent Drug: The titratable iodine contained in the Povidone-Iodine prep pads is below label claim of 0.85%.	Medline Industries Inc. Three Lakes Drive Northfield, IL 60093
Drug	Mitomycin 40 mg/mL Preservative Free Irrigation Volume: 10 mL SDV , Compounded by: Premier Pharmacy Labs 8265 Commercial Way, Weeki Wachee, FL 34613, NDC: 69623-160-35.	II	Lot: MIT100217SVDS BUD: 03/01/2018	Labeling: Label Error on Declared Strength	Premier Pharmacy Labs Inc. 8265 Commercial Way Weeki Wachee, FL 34613-4511
Drug	Neutrogena Elevated 4-Holiday Trays (contains Neutrogena Deep Clean Purifying Whipped Foam Cleanser) Case Code: 00070501302866	II	Lot #: 2617RT1, 2617RT2, 2627RT2, 2637RT1, 2647RT1, 2657RT1, 2627RT2, EXP 05/2019	Defective Container: products showed leakage (bubbles, foaming) of propellant and product from the container valve cup area	Johnson & Johnson 199 Grandview Rd Skillman, NJ 08558-1311

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	PD-Rx Pharmaceuticals Incorporated Ibuprofen 200 mg tablets a) 24 tablets NDC 55289-673-24; b) 30 tablets NDC 55289-673-30; c) 50 tablets NDC 55289-673-50; d) 60 tablets NDC 55289-673-60	II	Lots: K16E92 Exp. 5/31/18; B17A87 Exp. 5/31/18; E17A51 Exp. 5/31/18; L16B59 Exp. 1/31/18; K16E01 Exp. 5/31/18; A17F21 Exp. 5/31/18; B17D71 Exp. 5/31/18; D17E92 Exp. 5/31/18; J16D13 Exp. 1/31/18; A17D63 Exp. 5/31/18; E17A18 Exp. 5/31/18; F17B87 Exp. 5/31/18; C17C58 Exp. 5/31/18	CGMP deviations	PD-Rx Pharmaceuticals, Inc. 727 N Ann Arbor Ave Oklahoma City, OK 73127-5822
Drug	Ling Zhi capsules	II	all lots	Marketed Without An Approved NDA/ANDA: Flawless Beauty, LLC is voluntarily recalling all lots of different products sold individually or as part of multi-unit kits in accordance with Consent Decree of Permanent Injunction ordered by the United States District Court due to misbranding and unapproved new drugs pursuant to the FD&C	Flawless Beauty LLC 1215 Main St Asbury Park, NJ 07712-5940
Drug	Saluta Glutathione Whitening kits, packaged in 600 mg, 1200 mg and 1800 mg glass vials, Manufactured by: Shandong Luye Pharmaceutical Co, Ltd, Yantai, Shandong. PRC	II	all lots	Marketed Without An Approved NDA/ANDA: Flawless Beauty, LLC is voluntarily recalling all lots of different products sold individually or as part of multi-unit kits in accordance with Consent Decree of Permanent Injunction ordered by the United States District Court due to misbranding and unapproved new drugs pursuant to the FD&C	Flawless Beauty LLC 1215 Main St Asbury Park, NJ 07712-5940

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	TAD Glutathione Whitening Kits lyophilized powder for injection, 600 mg vials, 10 vials + 10 amps x 4 mL, Manufactured by: Biomedica Foscama Industria, Ferentino, Italy	II	all lots	Marketed Without An Approved NDA/ANDA: Flawless Beauty, LLC is voluntarily recalling all lots of different products sold individually or as part of multi-unit kits in accordance with Consent Decree of Permanent Injunction ordered by the United States District Court due to misbranding and unapproved new drugs pursuant to the FD&C	Flawless Beauty LLC 1215 Main St Asbury Park, NJ 07712-5940
Drug	VELCADE (bortezomib) for injection, 3.5 mg/vial, Reconstitution Information, SUBCUTANEOUS INJECTION ONLY add 1.4 mL 0.9% Sodium Chloride to make 2.5 mg/ mL final concentration, INTRAVENOUS INJECTION ONLY add 3.5 mL Sodium Chloride to 1 mg/mL final concentration, Rx Only, Distributed by MILLENNIUM Pharmaceuticals, Inc., Cambridge, MA 02139-4234, NDC 63020-0049-01	II	Lot # 224161, 224546 224547 Exp. 12/19	Defective Container: Confirmed reports of loose vial crimps	Millennium Pharmaceuticals Inc. 40 Landsdowne St Cambridge, MA 02139-4234
Drug	bupPROPion HCL Extended-Release Tablets, USP (XL) 300 mg, 500-count bottle, Rx only, Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A. NDC: 0378-2009-05	III	bupPROPion HCL Extended-Release Tablets, USP (XL) 300 mg, 500-count bottle, Rx only, Mylan Pharmaceuticals Inc. Morgantown, WV 26505 U.S.A. NDC: 0378-2009-05	Failed Impurities/Degradation Specifications: Mylan Pharmaceuticals Inc. is conducting a voluntary recall due to related out of specification compound results obtained during routine stability testing.	Mylan Pharmaceuticals Inc. 781 Chestnut Ridge Rd Morgantown, WV 26505-2730
Drug	Vecuronium bromide for Injection, 10 mg vials, Rx only, Mfd. for: Fresenius Kabi, Lake Zurich, IL 60047, Made in India, NDC 63323-781-10	III	Lot #: ZG603, Exp 11/18	Failed impurities/ degradation specifications: Out-of-specification (OOS) result for USP related compound F at the 12 month stability test station	Fresenius Kabi USA, LLC 3 Corporate Dr Lake Zurich, IL 60047-8930

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Cefuroxime, Ophthalmic Solution for Injection, 10 mg/mL, 0.3 mL single-use syringe. This is a Compounded Drug, Hospital & Office Use Only, Not for Resale. Fagron Sterile Services/JCB Laboratories, 7335 W. 33rd St. N., Wichita, KS 67205	III	Lot #: C274-000002725, BUD 1/21/2018; C274-000002790, BUD 1/28/2018; C274-000002989, BUD 2/13/2018; C274-000003008, BUD 2/14/2018; C274-000003077, BUD 2/20/2018	Subpotent Drug: The product is sub-potent prior to its 90-day beyond use date.	JCB Laboratories LLC 7335 W 33rd St N Wichita, KS 67205-9368
Drug	Ultane (sevoflurane), 250 mL, Inhalation Anesthetic, Rx only, Manufactured by: AbbVie Inc., North Chicago, IL 60064, USA. NDC 0074-4456-51	III	Lot #: 1088856, Exp 6/20	Defective container: presence of a hole in the liners of the caps covering the product bottle, introducing possibility of leakage.	AbbVie Inc. 1 N Waukegan Rd North Chicago, IL 60064-1802
Drug	Oxycodone Hydrochloride Tablets, USP 15 mg, 100 count bottles, Rx only, Manufactured for Camber Pharmaceuticals, Inc., Piscataway, NJ, Manufactured by: Ascent Pharmaceuticals, Inc., Central Islip, NY --- NDC 31722-917-01	III	Lot # 17080591 17080619 Exp 07/19; 17110907 17110908 Exp 10/19 17120986, Exp 11/19	Labeling; Label Error Not Elsewhere Classified; label missing controlled substance CII symbol	Ascent Pharmaceuticals, Inc. 550 S Research Pl Central Islip, NY 11722-4415
Drug	Clobetasol Propionate Cream USP, 0.05% 60 g tube, Rx only Mfd. by: Taro Pharmaceutical Industries Ltd., Haifa Bay, Israel 2624761 Dist. by : Taro Pharmaceuticals U.S.A., Inc., Hawthorne, NY 10532 UPC 351672125837 NDC 51672-1258-3	III	Lot 311235, Exp Sept 2018	Failed Content Uniformity Specifications	Taro Pharmaceuticals U.S.A., Inc. 3 Skyline Dr Hawthorne, NY 10532-2174
Drug	Atorvastatin Calcium Tablets 10 mg, a) 90 count and b) 500 count bottles, Rx only, Mfd by: Dr. Reddy's Laboratories, Ltd., Srikakulam, INDIA --- NDC 55111-121-05	III	Lot a) T600125, 3/2018; T600201 T600248 5/2018, b) T600125 3/2018 T600201 T600248 5/2018	Failed Impurities/Degradations Specifications; out-of-specification results observed for Total Degradation Impurities during stability	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623

Product Type	Product Description	Class	Code Information	Reason for Recall	Recalling Firm
Drug	Atorvastatin Calcium Tablets 20 mg, a) 90 count and b) 500 count bottles, Rx only, Mfd by: Dr. Reddy's Laboratories, Ltd., Srikakulam, INDIA --- NDC 55111-122-05	III	Lot # a) T600126, 3/2018 T600202 T600247 5/2018 b) T600126 3/2018 T600202 T600247 5/2018	Failed Impurities/Degradations Specifications; out-of-specification results observed for Total Degradation Impurities during stability	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623
Drug	Atorvastatin Calcium Tablets 40 mg, 90 count bottles, Rx only, Mfd by: Dr. Reddy's Laboratories, Ltd., Srikakulam, INDIA --- NDC 55111-123-05	III	Lot number: T600279, 6/2018	Failed Impurities/Degradations Specifications; out-of-specification results observed for Total Degradation Impurities during stability	Dr. Reddy's Laboratories, Inc. 107 College Rd E Princeton, NJ 08540-6623
Drug	Ciclopirox Olamine Cream USP, 0.77%, packaged in a) 15 g tubes (NDC 0713-0638-15); b) 30 g tubes (NDC 0713-0638-31); and c) 90 g tubes (NDC 0713-0638-18), Rx Only, Manufactured by: G&W Laboratories, Inc., South Plainfield, NJ 07080.	III	Lot #: a) 1002896 Exp 09/18 1005797 Exp 05/19 1006100 Exp 07/19 b) 1002561 Exp 06/18 1002897 Exp 09/18 1005798 Exp 05/19 1006101 Exp 07/19 c) 1002898 Exp 10/18 1004283 Exp 12/18 1005837 Exp 05/19 1006321 1006322 Exp 07/19	Discoloration: Product is supposed to be a white to off white homogenous cream and may have intermittent yellow discoloration.	G & W Laboratories, Inc. 200 Helen St South Plainfield, NJ 07080-3800
Drug	Megestrol Acetate Oral Suspension, USP 400 mg/ 10mL (10 mL UD cups in boxes of 20 cups), Rx Only, Dist. By McKesson Packaging Services a business unit of McKesson Corporation 7101 Weddington Rd. Concord, NC 28027, NDC 63739-549-51	III	Lot #: 0114588, Exp 10/18	Subpotent Drug: Out of specification for assay (stability testing)	McKesson Packaging Services 7101 Weddington Rd NW Concord, NC 28027-3412

*Please refer to FDA website for further information at: http://www.fda.gov/Safety/Recalls/default.htm

CURRENT DRUG SHORTAGES

Fluorescein Sodium Ophthalmic Strips
January 24, 2018

Reason for the Shortage
- Hub did not provide a reason for the shortage.
- Akorn did not provide a reason for the shortage.

Estimated Resupply Dates
- Akorn has Ful-Glo 0.6 mg and 1 mg strips on back order and the company estimates a release date of late-1st quarter 2018.
- Hub has Bio-Glo 1 mg strips on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1295

Ceftriaxone Sodium Injection
January 24, 2018

Reason for the Shortage
- Apotex states the reason for the shortage is manufacturing delays. Apotex launched several products with new NDC numbers in June 2017.
- Fresenius Kabi states the reason for the shortage is increased demand.
- Pfizer has ceftriaxone injection available.
- Sagent states the reason for the shortage is manufacturing delay.
- Sandoz has most ceftriaxone available.
- West-Ward states the reason for the shortage is manufacturing delay.
- WG Critical Care states the reason for the shortage is increased demand.
- Wockhardt relaunched their ceftriaxone presentations in October 2017.

Estimated Resupply Dates
- Apotex has ceftriaxone 250 mg and 500 mg on back order and the company cannot estimate a release date.
- Fresenius Kabi has ceftriaxone 500 mg vials on back order and the company cannot estimate a release date.
- Lupin has all ceftriaxone presentations on allocation.
- Pfizer has ceftriaxone 1 gram ADD-Vantage and 2 gram ADD-Vantage vials on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1101

Famotidine Injection
January 25, 2018

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.

- Fresenius Kabi did not provide a reason for the shortage.
- Baxter has famotidine premixed bags available.

Estimated Resupply Dates
- Fresenius Kabi has famotidine 2 mL vials on back order and the company estimates a release date in early-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=810

Theophylline Extended-Release Tablets
January 26, 2018

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

Estimated Resupply Dates
- Teva has theophylline extended-release tablets temporarily unavailable and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1221

Levetiracetam Injection
January 26, 2018

Reason for the Shortage
- American Regent did not provide a reason for the shortage.
- AuroMedics did not provide a reason for the shortage.
- Fresenius Kabi has product available.
- Mylan has product available.
- Pfizer has product available.
- Sagent has product available.
- Sun Pharma did not provide a reason for the shortage.
- UCB has product available.
- West-Ward has product available.
- X-Gen has product available.

Estimated Resupply Dates
- American Regent has levetiracetam 100 mg/mL 5 mL vials on back order and the company cannot estimate a release date.
- AuroMedics has levetiracetam 5 mg/100 mL, 10 mg/mL 100 mL, and 15 mg/mL 100 mL premixed bags back order and the company cannot estimate a release date.
- Sun Pharma 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

Leucovorin Calcium Injection
January 26, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Fresenius Kabi has leucovorin 500 mg vials on intermittent back order and the company is releasing product as it becomes available.
- Sagent has leucovorin 350 mg vials on allocation.
- West-Ward has leucovorin 350 mg vials on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=488

Doxorubicin Injection

January 26, 2018

Reason for the Shortage

- West-Ward has Adriamycin available.
- Teva has doxorubicin solution for injection available.
- Fresenius Kabi has doxorubicin solution for injection available.
- Caraco has discontinued doxorubicin solution for injection 25 mL and 100 mL vials.
- Pfizer has doxorubicin solution for injection available.
- Sagent discontinued doxorubicin solution for injection in late-2017.
- Mylan Institutional has doxorubicin lyophilized powder for injection available.
- Actavis had doxorubicin on shortage due to increased demand.
- FDA was allowing temporary importation of doxorubicin lyophilized powder for injection 50 mg vials. These vials were manufactured for Hospira UK Limited. The labeling as well as bar coding for the imported product is different from the US version. FDA has the Dear Healthcare Professional Letter linked on their website. The letter includes a link to both the US and United Kingdom package inserts to help explain the differences in labeling and packaging. Ordering can be done directly with Hospira Customer Care at 877-946-7747.

Estimated Resupply Dates

- Mylan Institutional has doxorubicin lyophilized powder 10 mg vials available with an expiration date of August 2018.
- Pfizer has doxorubicin 2 mg/mL 10 mL and 100 mL vials on back order and the company estimates a release date of late-February 2018 for the 10 mL vials and March 2018 for the 100 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=464

Acetylcysteine Oral and Inhalation Solution

January 26, 2018

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 4 mL and 200 mg/mL 4 mL vials available in limited supply. The 100 mg/mL 10 mL and 200 mg/mL 10 mL and 30 mL vials are on back order and the company cannot estimate a release date.
- Fresenius Kabi has acetylcysteine solution 200 mg/mL 4 mL and 10 mL vials on back order and the company estimates a release date of late-February to early-March 2018 for the 4 mL vials and early- to mid-April 2018 for the 10 mL vials. The 200 mg/mL 30 mL vials are on back order and the company cannot estimate a release date. The 100 mg/mL 4 mL and 10 mL vials are on back order and the company estimates a release date of early- to mid-April 2018 for the 4 mL vials and late-April 2018 for the 10 mL vials. The 100 mg/mL 30 mL vials are on back order and the company cannot estimate a release date.
- Pfizer has acetylcysteine solution 200 mg/mL 30 mL vials on back order and the company estimates a release date of mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=932

Oseltamivir Oral Suspension

January 27, 2018

Reason for the Shortage

- Alvogen has oseltamivir oral powder for suspension on shortage due to increased demand.
- Zydus has oseltamivir oral powder for suspension on shortage due to increased demand.
- Genentech has Tamiflu oral powder for suspension available.
- The oral capsules are not affected by this shortage.

Estimated Resupply Dates

- Alvogen has oseltamivir oral powder for suspension 6 mg/mL 60 mL bottles on intermittent back order with regular releases.
- Zydus has oseltamivir oral powder for suspension 6 mg/mL 60 mL bottles on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1306

Vancomycin Hydrochloride Injection

January 29, 2018

Reason for the Shortage

- Athenex has vancomycin injection available.
- 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.[7]
- Baxter has vancomycin injection available.
- Samson Medical Technologies has vancomycin injection available.

Estimated Resupply Dates

- 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, 750 mg ADD-Vantage vials, 1 gram vials, 1 gram ADD-Vantage vials, 5 gram vials, and 10 gram vials available in limited supply. The 500 mg ADD-Vantage vials and 750 mg vials are on back order and the company estimates a release date of late-February 2018 for the 500 mg ADD-Vantage vials and early-March 2018 for the 1 gram vials.
- Sagent has vancomycin 5 gram vials on allocation. The 10 gram vials are on back order and the company estimates a release date of March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=132

Trace Elements Injection

January 29, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- 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-5 regular 10 mL vials, and Multitrace-5 Concentrate 10 mL vials are available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=785

Sodium Phosphate Injection

January 29, 2018

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 Dates

- American Regent has sodium phosphate 3 mmol/mL 5 mL, 15 mL, and 50 mL vials on back order and the company cannot estimate a release date.
- Fresenius Kabi has sodium phosphate 3 mmol/mL 5 mL vials on back order and the company estimates a release date of mid- to late-February 2018.
- Pfizer has sodium phosphate 3 mmol/mL 15 mL vials available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=770

Progesterone Injection

January 29, 2018

Reason for the Shortage

- American Regent did not provide a reason for the shortage.
- Fresenius Kabi has progesterone on shortage due to increased demand and manufacturing delays.
- Teva has progesterone on shortage due to supply constraints.
- West-Ward has progesterone on shortage due to manufacturing delays

Estimated Resupply Dates

- American Regent has progesterone in oil 50 mg/mL 10 mL vials for intramuscular injection on back order and the company cannot estimate a release date.
- Fresenius Kabi has progesterone in oil 50 mg/mL 10 mL vials for intramuscular injection on back order and the company cannot estimate a release date. Check wholesaler for availability.
- Teva has progesterone in oil 50 mg/mL 10 mL vials for intramuscular injection on back order and the company estimates a release date of 2nd quarter 2018.
- West-Ward has progesterone in oil 50 mg/mL 10 mL vials for intramuscular injection on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1305

Methylene Blue Injection

January 29, 2018

Reason for the Shortage

- Akorn has methylene blue on shortage due to manufacturing delays.
- American Regent has recently launched an FDA approved presentation, ProvayBlue and product is available.

Estimated Resupply Dates

- Akorn has methylene blue 10 mg/mL 1 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=27

Leuprolide Acetate 14-Day Kit

January 29, 2018

Reason for the Shortage

- Sun Pharma did not provide a reason for the shortage.
- Sandoz states the reason for the shortage was increased demand.
- Teva states the shortage is due to manufacturing delays.

Estimated Resupply Dates

- Teva has leuprolide acetate injection on long-term back order and the company cannot estimate a release date.
- Sun Pharma has leuprolide acetate injection on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=737

Indocyanine Green

January 29, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Akorn has IC-Green 25 mg kits on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1107

Doxycycline Hyclate Injection
January 29, 2018

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

Dorzolamide 2% and Timolol 0.5% Ophthalmic Solution
January 29, 2018

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 Dates
- Akorn has dorzolamide 2% and timolol 0.5% ophthalmic solution on allocation. The company has Cosopt 2%/0.5% ophthalmic solution available but with expiration date of August 2018.
- Sandoz has dorzolamide 2% and timolol 0.5% ophthalmic solution on back order and the company estimates a release date of mid- to late-February 2018.
- Teva has dorzolamide 2% and timolol 0.5% ophthalmic solutions on back order and the company estimates a release date of late-February to early-March 2018.
- Valeant has dorzolamide 2% and timolol 0.5% ophthalmic solution on back order and the company estimates a release date of mid- to late-February 2018
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1292

Promethazine Injection
January 30, 2018

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

Metoclopramide Injection
January 30, 2018

Reason for the Shortage
- Pfizer has metoclopramide injection on shortage due to manufacturing delays.
- Teva has metoclopramide injection on shortage due to increased demand

Estimated Resupply Dates
- Fresenius Kabi has metoclopramide 5 mg/mL 2 mL syringes on back order and the company estimates a release date of early-March 2018.
- Pfizer has metoclopramide 5 mg/mL 2 mL vials on back order and the company estimates a release date of mid-April 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

Methylphenidate Extended-Release Oral Suspension and Chewable Tablets
January 30, 2018

Reason for the Shortage
- Pfizer has Quillivant XR on shortage due to manufacturing delays.
- Pfizer has QuillChew ER chewable tablets available.

Estimated Resupply Dates
- Pfizer has Quillivant XR 5 mg/mL extended-release oral suspension in 60 mL, 120 mL, 150 mL, and 180 mL bottles on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1301

Hydroxyzine Hydrochloride Injection
January 30, 2018

Reason for the Shortage
- American Regent has hydroxyzine injection on shortage due to manufacturing delays. They are the sole supplier of hydroxyzine injection.

Estimated Resupply Dates
- American Regent has hydroxyzine 50 mg/mL 10 mL vials on back order and the company cannot estimate a release date. The 50 mg/mL 2 mL vials are available for drop shipment only. The company has an estimated release date of mid-March 2018 for the 50 mg/mL 2 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1185

Dorzolamide Ophthalmic Solution
January 30, 2018

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 Dates
- Akorn has dorzolamide 2% ophthalmic solution on allocation.
- Merck has Trusopt 2% ophthalmic solution on back order and the company estimates a release date of March 2018.
- Sandoz has dorzolamide 2% ophthalmic solution on back order and the company estimates a release date of early-February 2018.
- 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 mid- to late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1293

Dextrose (50%) Injection
January 30, 2018

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 on back order and the company estimates a release date of late-February 2018. The 50% dextrose 50 mL vials are on back order and the company estimates a release date of mid-February 2018. The 50% dextrose 50 mL Ansyr II syringes are available in limited supply
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1012

Ceftazidime Injection
January 30, 2018

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 Dates
- Teligent has Fortaz 2 gram and 6 gram vials and 1 gram/50 mL and 2 gram/50 mL premixed bags on back order and the company cannot estimate a release date.
- Sagent has ceftazidime 1 gram vials on allocation.
- Pfizer has Tazicef 2 gram ADD-Vantage vials on back order and the company estimates a release date of mid-February 2018.
- BBraun has ceftazidime 1 gram/50 mL and 2 gram/50 mL premixed bags on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=869

Caffeine and Sodium Benzoate Injection
January 30, 2018

Reason for the Shortage
- American Regent has caffeine and sodium benzoate on shortage due to manufacturing delays.

Estimated Resupply Dates
- American Regent has caffeine and sodium benzoate injection available for drop shipment only. The company has an estimated release date of late-April 2018 for further supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=817

Amoxicillin and Clavulanate 1000 mg/62.5 mg Extended-Release Tablets
January 30, 2018

Reason for the Shortage
- Dr. Reddy's states they are having raw ingredient issues.
- Sandoz did not provide a reason for the shortage.

Estimated Resupply Dates
- Dr. Reddy's has Augmentin XR and generic amoxicillin/clavulanate 1000 mg / 62.5 mg tablets temporarily unavailable and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1259

0.9% Sodium Chloride 10 mL, 20 mL, and 50 mL Preservative Free Vials and Syringes
January 30, 2018

Reason for the Shortage
- Fresenius Kabi did not provide a reason for the shortage.
- Pfizer has 0.9% sodium chloride preservative-free vials on shortage due to manufacturing delays.

Estimated Resupply Dates
- Fresenius Kabi has 0.9% sodium chloride preservative free 10 mL and 20 mL vials on back order and the company estimates a release date of early-March 2018 for the 10 mL vials and mid-March 2018 for the 20 mL vials.
- Pfizer has 0.9% sodium chloride preservative free 10 mL LifeShield syringes on back order and the company estimates a release date of mid-February 2018. The 10 mL vials are on back order and the company estimates a release date of late-February 2018. The 20 mL and 50 mL vials are available in limited supply
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1276

Lorazepam Oral Solution
January 31, 2018

Estimated Resupply Dates
- Akorn has lorazepam 2 mg/mL 30 mL bottles on back order and the company cannot estimate a release date.
- West-Ward has lorazepam 2 mg/mL 30 mL bottles on allocation.

- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1308

Isosorbide Dinitrate Extended-Release Tablets

January 31, 2018

Reason for the Shortage

- Sun Pharma is not currently manufacturing isosorbide dinitrate 40 mg extended-release tablets.

Estimated Resupply Dates

- Sun Pharma refuses to provide estimated resupply dates.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1280

Hepatitis A Virus Vaccine Inactivated

January 31, 2018

Reason for the Shortage

- Merck did not provide a reason for the Vaqta shortage.
- GlaxoSmithKline did not provide a reason for the shortage.
- GlaxoSmithKline discontinued the Havrix adult vials in November 2017

Estimated Resupply Dates

- Merck has Vaqta pediatric/adolescent formulation 25 U/0.5 mL prefilled syringes in 10 counts on back order and the company estimates a release date of 2nd quarter 2018.
- Merck has Vaqta adult formulation 50 U/1 mL in 1 count on back order and the company cannot estimate a release date. Vaqta 50 U/1 mL prefilled syringes are on back order and the company estimates a release date of 2nd quarter 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=180

Thiamine Injection

February 1, 2018

Reason for the Shortage

- Fresenius Kabi has thiamine injection on shortage due to short-term manufacturing delays.
- Mylan Institutional did not provide a reason for the shortage.

Estimated Resupply Dates

- Fresenius Kabi has thiamine 100 mg/mL 2 mL vials on back order and the company estimates a release date of mid- to late-February 2018.
- Mylan Institutional has thiamine 100 mg/mL 2 mL vials on back order and the company estimates a release date of mid- to late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1309

Multiple Electrolytes Large Volume Solutions for Injection

February 1, 2018

Reason for the Shortage

- Baxter did not provide a reason for Plasma-Lyte 148 and Plasma-Lyte A back order.
- Pfizer has Normosol-R presentations on back order due to manufacturing delays.

Estimated Resupply Dates

- Baxter has Plasma-Lyte-148 500 mL and 1,000 mL bags and Plasma-Lyte-A 500 mL bags available in limited quantities.
- ICU Medical has Normosol-R and Normosol-R (pH 7.4) 1,000 mL bags available in limited quantities. Normosol-R (pH 7.4) 500 mL bags are on back order and the company estimates a release in early-February 2018
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1310

Cefepime Injection

February 1, 2018

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 Dates

- BBraun has cefepime 1 gram and 2 gram premixed bags on allocation to current customers.
- Pfizer has cefepime 1 gram and 2 gram ADD-Vantage vials on back order and the company estimates a release date of mid-February 2018 for the 1 gram vials and March 2018 for the 2 gram vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1176

Sodium Bicarbonate Injection

February 5, 2018

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 Dates

- Amphastar has 8.4 % sodium bicarbonate 50 mL syringes on allocation.
- Pfizer has 4.2% sodium bicarbonate 10 mL syringes on back order and the company estimates a release date of mid-March 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

Sodium Acetate Injection
February 5, 2018

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 mid-February 2018. The 100 mL vials are available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=762

Potassium Acetate Injection
February 5, 2018

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 Dates
- Pfizer has potassium acetate 2 mEq/mL 20 mL vials on back order and the company estimates a release date of late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=668

Morphine Injections
February 5, 2018

Reason for the Shortage
- Fresenius Kabi procured morphine syringes from BD in 2016.
- 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 Dates
- 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, 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 cannot estimate a release date. The 0.5 mg/mL 10 mL preservative-free vials are available in limited supply. The 1 mg/mL 10 mL preservative-free vials are on back order and the company estimates a release date of mid-February 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. The 25 mg/mL 1 mL preservative-free vials are on back order and the company estimates a release date of late-February 2018. The 50 mg/mL 20 mL and 50 mL vials are on back order and the company estimates a release date of April 2018 for the 20 mL vials and mid-February 2018 for the 50 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=664

Mannitol Injection

February 5, 2018

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 Dates

- 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 mid-February 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

Ketorolac Tromethamine Injection

February 5, 2018

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 Dates

- Amphastar has ketorolac 30 mg/mL 1 mL vials on back order and the company cannot estimate a release date.
- Fresenius Kabi has ketorolac 30 mg/mL 1 mL prefilled syringes on intermittent back order and the company is releasing product as it becomes available. The 15 mg/mL 1 mL vials are on back order and the company estimates a release date of late-February to early-March 2018. The 30 mg/mL 1 mL vials are on back order and the company estimates a release date of mid-March 2018. The 30 mg/mL 2 mL vials for intramuscular injection are on back order and the company estimates a release date of early-March 2018.
- Pfizer has ketorolac 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 are on back order and the company estimates a release date of mid-February 2018.
- Sagent has ketorolac 30 mg/mL 2 mL vials for intramuscular injection and 30 mg/mL 1 mL vials on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=593

Etoposide Phosphate Injection

February 5, 2018

Reason for the Shortage

- Bristol-Myers Squibb did not provide a reason for the shortage of Etopophos.

Estimated Resupply Dates

- Bristol-Myers Squibb has Etopophos 100 mg vials on back order and the company estimates a release date of late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1311

Disopyramide Phosphate Controlled-release Capsules

February 5, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Pfizer has Norpace CR 100 mg capsules in 500 count and 150 mg capsules in 500 counts on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1139

Dipyridamole Injection

February 5, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- West-Ward has dipyridamole 5 mg/mL 10 mL vials on back order and the company estimates a release date of February 2018.

- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=465

Diazepam Injection
February 5, 2018

Reason for the Shortage
- Pfizer has diazepam on shortage due manufacturing delays.

Estimated Resupply Dates
- Pfizer has diazepam 5 mg/mL 2 mL Carpuject syringes on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=492

Cisplatin Injection
February 5, 2018

Reason for the Shortage
- Fresenius Kabi has cisplatin available.
- Mylan Institutional discontinued cisplatin in January 2018.
- Teva had cisplatin on allocation due to increased demand.
- WG Critical Care has cisplatin available.

Estimated Resupply Dates
- Fresenius Kabi has cisplatin 1 mg/mL 200 mL vials on back order and the company estimates a release date of early-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=57

Carboplatin Solution for Injection
February 5, 2018

Reason for the Shortage
- Bedford discontinued carboplatin in May, 2011 to concentrate on the manufacturing of other products.
- Fresenius Kabi has carboplatin available.
- Mylan Institutional discontinued carboplatin in January 2018.
- Pfizer has carboplatin injection on shortage due to manufacturing delays.
- Sagent states the reason for the shortage is increased demand for the product and manufacturing delays.
- Sandoz has discontinued carboplatin injection.
- Teva has carboplatin on allocation due to increased demand

Estimated Resupply Dates
- Sagent has carboplatin 10 mg/mL 5 mL and 15 mL vials on back order and the company cannot estimate a release date. The 45 mL and 60 mL vials are on back order and the company estimates a release date of February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1005

Calcium Chloride Injection
February 5, 2018

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 Dates
- American Regent has calcium chloride 100 mg/mL 10 mL vials available in limited supply.
- 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 late-February 2018. The 100 mg/mL 10 mL LifeShield syringes are on back order and the company estimates a release date of mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=941

Bumetanide Injection
February 5, 2018

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 Dates
- Pfizer has bumetanide 0.25 mg/mL 4 mL and 10 mL vials on back order and the company estimates a release date of June 2019.
- West-Ward has bumetanide 0.25 mg/mL 10 mL vials on a weekly allocation
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=674

Lidocaine Injection
February 6, 2018

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

Estimated Resupply Dates
- AuroMedics has 1% lidocaine 2 mL ampules and 5 mL and 30 mL vials on intermittent back order and the company is releasing product as it becomes available. AuroMedics has 2% lidocaine 5

mL vials on intermittent back order and the company is releasing product as it becomes available.

- Fresenius Kabi has 1% lidocaine 2 mL vials on allocation (< 2 months expiration date). The 1% lidocaine 10 mL vials are on back order and the company estimates a release date of late-February to early-March 2018. The 1% Xylocaine 20 mL and 50 mL vials are on back order and the company estimates a release date of early-February 2018. The 1% Xylocaine-MPF 5 mL vials and 30 mL vials are on back order and the company estimates a release date of early-February 2018. The 1% Xylocaine-MPF 10 mL vial and 30 mL vial sterile packs are on back order and the company estimates a release date of mid-February 2018 for the 10 mL vial sterile packs and the company cannot estimate a release date for the 30 mL vial sterile packs. The 1.5% Xylocaine-MPF 20 mL ampules are on back order and the company estimates a release date in mid-February 2018. The 2% Xylocaine-MPF 5 mL vials are on back order and the company estimates a release date of mid-February 2018. The 2% Xylocaine 50 mL vials are on back order and the company estimates a release date of mid-February 2018. The 2% lidocaine 5 mL preservative free vials are on back order and the company estimates a release date of late-February to early-March 2018.
- Pfizer has 0.5% lidocaine 50 mL vials available in limited supply. The 1% lidocaine 20 mL vials, 50 mL vials, and 2 mL preservative-free vials are on intermittent back order and the company is releasing product as it becomes available. The 1% lidocaine 30 mL preservative-free vials, 5 mL Ansyr syringes, and 5 mL preservative-free ampules are on back order and the company estimates a release date of late-March 2018 for the 30 mL preservative-free vials and 5 mL Ansyr syringes and March 2018 for the 5 mL preservative-free ampules. The 2% lidocaine 5 mL vials and 10 mL ampules are on intermittent back order and the company is releasing product as it becomes available. The 2% lidocaine 2 mL preservative-free ampules, 20 mL vials, and 50 mL vials are on back order and the company estimates a release date of mid-May 2018 for the 2 mL preservative-free ampules, and late-March 2018 for the 20 mL and 50 mL vials. The 2% 5 mL Lifeshield syringes and 5 mL Ansyr syringes are on back order and the company estimates a release date of mid-March 2018 for the 5 mL Lifeshield syringes and early-March 2018 for the 5 mL Ansyr syringes.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=859

Furosemide Injection

February 6, 2018

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 Dates

- Claris has furosemide 10 mg/mL 4 mL and 10 mL vials in 5 counts on back order and the company cannot estimate a release date. The 10 mg/mL 2 mL vials in 5 counts are available with an expiration date of May 2018.
- Fresenius Kabi has furosemide 10 mg/mL 2 mL vials on back order and the company estimates a release date of mid-February 2018.

- Pfizer has furosemide 10 mg/mL 4 mL syringes on back order and the company estimates a release date of late-February 2018. The 2 mL vials and 10 mL syringes are available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=636

Etoposide Injection

February 6, 2018

Reason for the Shortage

- Accord has etoposide on back order due to increased demand.
- Fresenius Kabi has etoposide on back order due to increased demand.
- Teva did not provide a reason for the current shortage.
- Etoposide phosphate powder for injection (Etopophos) is unaffected by this shortage.

Estimated Resupply Dates

- Accord has etoposide 20 mg/mL 5 mL, 25 mL, and 50 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has etoposide 20 mg/mL 5 mL, 25 mL, and 50 mL vials on back order and the company estimates a release date of late-February to early-March 2018 for the 5 mL vials, early-March 2018 for the 25 mL vials, and early-February 2018 for the 50 mL vials.
- Teva has Toposar 20 mg/mL 5 mL vials on allocation. The 25 mL vials are on intermittent back order and the product is being allocated upon release. The 50 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=652

Etomidate Injection

February 6, 2018

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 Dates

- 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 10 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 late-July to 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 and 20 mL vials are on back order and the company

estimates a release date of late-February 2018 for the 10 mL vials and mid-February 2018 for the 20 mL vials.
- Zydus has etomidate 2 mg/mL 10 mL and 20 mL vials on back order and the company estimates a release date of mid-February 2018
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=419

Cefoxitin Sodium Injection

February 6, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Sagent has cefoxitin 1 gram vials on back order and the company estimates a release date in March 2018.
- West-Ward has cefoxitin 1 gram, 2 gram, and 10 gram vials on back order and the company estimates a release date of late-February 2018 for the 1 gram vials and second quarter 2018 for the 2 gram and 10 gram vials.
- BBraun has cefoxitin 1 gram and 2 gram vials on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1256

Bupivacaine Injection

February 6, 2018

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. Pfizer discontinued 0.5% bupivacaine 30 mL glass ampules in December 2017.

Estimated Resupply Dates

- AuroMedics has 0.25% bupivacaine 10 mL and 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 and 0.5% bupivacaine 10 mL preservative-free vials on back order and the company estimates a release date of late-February 2018. The 0.25% bupivacaine and 0.5% bupivacaine 30 mL preservative-free vials are on back order and the company estimates a release date of early-April 2018.
  • Pfizer has all Marcaine presentations on back order and the company estimates a release date of March 2019.
- Fresenius Kabi has 0.5% Sensorcaine 10 mL preservative-free vials on back order and the company estimates a release date of early-February 2018. The 0.5% Sensorcaine 50 mL vials are on back order and the company estimates a release date of early-March 2018. The 0.5% Sensorcaine 30 mL preservative-free 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=864

Atropine Sulfate Injection
February 6, 2018

Reason for the Shortage
- American Regent had atropine injection on shortage due to market demand.
- Pfizer has atropine injection on shortage due to manufacturing delays.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Dates
- Pfizer has atropine 0.1 mg/mL 10 mL Ansyr syringes available on back order and the company estimates a release date of late-February 2018. 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 mid-February 2018 for the 10 mL LifeShield syringes.
- West-Ward has atropine 0.4 mg/mL 20 mL vials on back order and the company estimates a release date of mid-February to early-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=814

Ampicillin Sulbactam
February 6, 2018

Reason for the Shortage
- Pfizer has discontinued generic ampicillin sulbactam.
- Sagent has ampicillin sulbactam vials on back order due to manufacturing delays.
- Sagent has ampicillin sulbactam vials on allocation due to manufacturing delays.
- WG Critical Care states the shortage was due to increased demand.

Estimated Resupply Dates
- AuroMedics has ampicillin sulbactam 1.5 gram, 3 gram, and 15 gram vials on long-term back order and the company cannot estimate a release date.
- 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.
- Sagent has ampicillin sulbactam 15 gram vials on back order and the company estimates a release date of February 2018. 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 1.5 gram and 3 gram vials on back order and the company estimates a release date of second quarter 2018 for the 1.5 gram vials and mid-February 2018 for the 3 gram vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=805

Yellow Fever Vaccine Injection
February 7, 2018

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 Dates

- Sanofi Pasteur has YF-Vax multi-dose vials and single dose vials on back order and the company cannot estimate a release date.
- 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

Vincristine Sulfate Injection

February 7, 2018

Reason for the Shortage

- Pfizer has vincristine on shortage due to manufacturing delays.
- Teva has Vincasar on shortage due to increased demand.

Estimated Resupply Dates

- Pfizer has vincristine 1 mg/mL 1 mL and 2 mL vials on back order and the company estimates a release date of late-February 2018 for the 1 mL vials and March 2018 for the 2 mL vials.
- Teva has Vincasar 1 mg/mL 1 mL and 2 mL vials on allocation. Check wholesaler for availability.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1307

Potassium Chloride Injection

February 7, 2018

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 potassium chloride 10 mEq/1000 mL in 5% dextrose and 0.45% sodium chloride, potassium chloride 20 mEq/1000 mL in 5% dextrose and 0.2% sodium chloride, and potassium chloride 20 mEq/1000 mL in 0.45% sodium chloride available in limited quantities. Potassium chloride 20 mEq/1000 mL in 5% dextrose and 0.9% sodium chloride and potassium chloride 40 mEq/1000 mL in 5% dextrose and 0.9% sodium chloride on back order and the company cannot estimate a release date.
- Baxter has all potassium chloride in sterile water presentations in sterile water on allocation.
- Pfizer has potassium chloride 10 mEq/5 mL vials and 20mEq/10 mL vials on back order and the company estimates a release date of early-April 2018 for the 10 mEq/5 mL vials and late-March 2018 for the 20 mEq/10 mL vials.

- ICU Medical has the 10 mEq/50 mL in sterile water and 40 mEq/100 mL in sterile water on back order and the company estimates a release date of early-April 2018 for the 10 mEq/50 mL in sterile water and mid-March 2018 for the 40 mEq/100 mL in sterile water. Potassium chloride 10 mEq/100 mL in sterile water, 20 mEq/1000 mL in 0.9% sodium chloride premixed bags, and 20 mEq/1000 mL in lactated ringer's and 5% dextrose premixed bags are on intermittent back order and the company is releasing supplies as they become available. Potassium chloride 10 mEq/500 mL in 5% dextrose and 0.225% sodium chloride premixed bags are on long-term back order. Several potassium chloride presentations are on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=696

Piperacillin Tazobactam Injection

February 7, 2018

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 Dates

- Apotex has piperacillin/tazobactam 3.375 gram and 40.5 gram vials on back order and the company cannot estimate a release date.
- Baxter has Zosyn 3.375 gram/50 mL premixed bags available in limited supply.
- Mylan has piperacillin/tazobactam 3.375 gram vials available with a short expiration date (expiration September 2018). The 4.5 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 2019. Pfizer has piperacillin/tazobactam 3.375 gram and 4.5 gram ADD-Vantage vials available in limited supply.
- WG Critical Care has piperacillin/tazobactam 40.5 gram vials on back order and the company estimates a release date in April 2018
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1075

Multivitamin Oral Liquid

February 7, 2018

Reason for the Shortage

- Major has CertaVite with Antioxidants on shortage due to a recall. Products manufactured by PharmaTech LLC were recalled in August 2017 due to potential contamination with Burkholderia cepacia.
- Pfizer did not provide a reason for the shortage.
- Rugby has Cerovite liquid on shortage due to the PharmaTech recall.

Estimated Resupply Dates

- Major has CertaVite with Antioxidants on back order and the company cannot estimate a release date.
- Pfizer has Centrum Liquid on back order and the company estimates a release date in February or March 2018.
- Rugby has Cerovite liquid on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1257

Metronidazole Hydrochloride Injection

February 7, 2018

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 allocation 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-February 2018 for the 24 count presentations and March 2018 for the 80 count presentations.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1272

Metoprolol Injection

February 7, 2018

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 Dates

- Mylan Institutional has metoprolol 1 mg/mL 5 mL vials available with an expiration date of July 2018.
- Pfizer has metoprolol 1 mg/mL 5 mL ampules on back order and the company estimates a release date of March 2019. The 1 mg/mL 5 mL Carpuject syringes are on back order and the company estimates a release date of June 2019.
- West-Ward has metoprolol 1 mg/mL 10 mL vials on back order and the company estimates a release date of late-February to early-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=813

Liotrix Tablets

February 7, 2018

Reason for the Shortage

- Thyrolar tablets from Actavis (formerly Forest) are on shortage due to manufacturing changes.

Estimated Resupply Dates

- Actavis (formerly Forest) has all Thyrolar 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=24

Heparin Injection

February 7, 2018

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 Dates

- Fresenius Kabi has 1,000 unit 2 mL vials on back order and the company estimates a release date of mid-February 2018.
- Pfizer has 5,000 unit/mL 1 mL Carpuject syringes on back order and the company estimates a release date of June 2019. The 5,000 unit/mL 10 mL vials are on back order and the company estimates a release date in mid-March 2018. 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-February 2018. The 1,000 unit/mL 10 mL vials, 10,000 unit/mL 1 mL vials, and 1,000 unit/mL 30 mL vials are on back order and the company cannot estimate a release date. The 1,000 unit/mL 2 mL vials are on back order and the company estimates a release date of 1st quarter 2018.
- Sagent has 1,000 unit/mL 2 mL vials, 5,000 unit/mL 1 mL vials, and 10,000 unit/mL 1 mL vials on back order and the company estimates a release date of February 2018. The 1,000 unit/mL 10 mL vials are on back order and the company estimates a release date of early- to mid-February 2018. The 20,000 unit/mL 1 mL vials are on allocation.
- 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.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1289

Fomepizole Injection
February 7, 2018

Reason for the Shortage
- Mylan Institutional did not provide a reason for the shortage.
- X-Gen has fomepizole on shortage due to increased demand.

Estimated Resupply Dates
- Mylan Institutional has fomepizole 1 gram/mL 1.5 mL vials on back order and the company estimates a release date of early- to mid-April 2018.
- X-Gen has fomepizole 1 gram/mL 1.5 mL vials on back order and the company estimates a release date of late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1173

Deferoxamine Injection
February 7, 2018

Reason for the Shortage
- Fresenius Kabi has deferoxamine on shortage due to increased demand.
- Pfizer has deferoxamine on shortage due to manufacturing delays.
- Novartis has Desferal on shortage due to increased demand.

Estimated Resupply Dates
- Fresenius Kabi has deferoxamine 2 gram vials on back order and the company estimates a release date of late-February to early-March 2018. The 500 mg vials are available with an expiration date of <8 months.
- Pfizer has deferoxamine 500 mg and 2 gram vials on back order and the company estimates a release date of March 2019.
- Novartis has Desferal 500 mg vials available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1312

Clindamycin Injection
February 7, 2018

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 Dates
- Alvogen has clindamycin 150 mg/mL 2 mL, 4 mL, and 6 mL ADD-Vantage presentations on back order and the company cannot estimate a release date.

- Sagent has clindamycin 150 mg/mL 2 mL and 4 mL vials on back order and the company estimates a release date of mid-February 2018. The 6 mL vials are available with an expiration date of July 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1029

Asparaginase Erwinia chrysanthemi

February 7, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Jazz Pharmaceuticals has Erwinaze available. The company requests that Erwinaze only be ordered for patients who are currently undergoing treatment or initiating treatment.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1252

Amoxapine Tablets

February 7, 2018

Reason for the Shortage

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

Estimated Resupply Dates

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

5% Lidocaine and 7.5% Dextrose Injection

February 7, 2018

Reason for the Shortage

- Pfizer has 5% lidocaine and 7.5% dextrose 2 mL ampules on shortage due to manufacturing delays.
- Pfizer is the sole supplier of this combination.

Estimated Resupply Dates

- Pfizer has 5% lidocaine and 7.5% dextrose 2 mL ampules on long-term back order and the company estimates a release date of January 2019.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1245

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

February 7, 2018

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 Dates

- 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 50 mL, 100 mL, and 250 mL PVC/DEHP-free bags 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

5% Dextrose Injection

February 7, 2018

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 Dates

- Baxter has 5% dextrose 250 mL, 500 mL, and 1,000 mL bags on allocation.
- ICU Medical has 5% dextrose 250 mL 2 port bags and 250 mL bags on back order and the company estimates a release date in late-February 2018 for the 250 mL 2 port bags and mid-February 2018 for the 250 mL bags. The 500 mL bags are on intermittent back order and the company is releasing product as it becomes available. The 5% dextrose 250 mL ADD-Vantage bags, 500 mL 2 port bags, and 1,000 mL bags are on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1268

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

February 7, 2018

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 Dates

- Baxter has all 0.9% sodium chloride small volume bags on allocation.
- BBraun has all 0.9% sodium chloride small volume bags on allocation to current customers only.
- Pfizer has 0.9% sodium chloride 50 mL Add-Vantage bags and 100 mL Add-Vantage bags on allocation.
- ICU Medical has 0.9% sodium chloride 25 mL bags and 50 mL preservative-free bags on back order and the company estimates release dates of mid-March 2018 for the 25 mL bags and late-February 2018 for the 50 mL preservative free bags. All other 0.9% sodium chloride small volume 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=1287

Norepinephrine Bitartrate Injection

February 8, 2018

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 Dates

- Pfizer has Levophed 1 mg/mL 4 mL ampules on back order and the company estimates a release date of mid-February 2018. The 4 mL vials are on allocation.
- 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

Indomethacin Capsules

February 8, 2018

Reason for the Shortage

- Glenmark had indomethacin on shortage due to manufacturing delays.
- Heritage did not provide a reason for the shortage. Heritage discontinued indomethacin 50 mg capsule presentations.
- Mylan did not provide a reason for the shortage.
- Sandoz discontinued indomethacin in mid-2016.
- Teva did not provide a reason for the shortage.

Estimated Resupply Dates

- Heritage has indomethacin 25 mg capsules in 100 count and 1,000 count bottles on long-term back order, and the company cannot estimate a release date.
- Teva has all indomethacin presentations temporarily unavailable and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1236

Furosemide Tablets

February 8, 2018

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 Dates

- Mylan has furosemide 40 mg tablets in 100 counts on intermittent back order and the company is releasing product as it becomes available. The 80 mg tablets in 100 count and 1000 count bottles are on back order and the company estimates a release date of late-February to early-March 2018.

- 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 tablets n 100 count and 1000 count bottles on allocation. The 40 mg tablets in 100 count and 1000 count bottles are on allocation
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1281

Thiotepa for Injection

February 9, 2018

Reason for the Shortage

- West-Ward launched thiotepa in August 2015. West-Ward has product available.
- Amneal launched Tepadina in early 2017. They did not provide a reason for the shortage.

Estimated Resupply Dates

- Amneal has Tepadina 100 mg vials available with an expiration date of November 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=589

Sincalide Injection

February 9, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Bracco has Kinevac on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1032

Pantoprazole Injection

February 9, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Pfizer has Protonix 40 mg vials in 25 count packs on back order and the company estimates a release date of March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1153

Hydromorphone Hydrochloride Injection

February 9, 2018

Reason for the Shortage

- Akorn has hydromorphone injection on shortage due to increased demand.
- Fresenius Kabi has Dilaudid syringes on shortage due to increased demand. They are focusing their product on the 0.5 mg strength.

- 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 Dates

- Akorn has hydromorphone 10 mg/mL 1 mL ampules, 5 mL ampules, and 50 mL vials on allocation.
- Fresenius Kabi has Dilaudid 0.5 mg/mL 0.5 mL syringes on intermittent back order with regular releases. The 1 mg/mL 1 mL syringes,,2 mg/mL 1 mL syringes, and 4 mg/mL 1 mL syringes are on back order and the company cannot estimate a release date.
- Pfizer has 1 mg/mL 1 mL Carpuject syringes available in limited supply. The 2 mg/mL 1 mL vials are on back order and the company estimates a release date of late-February 2018. The 10 mg/mL 1 mL vials are on back order and the company estimates a release date of September 2018. The 2 mg/mL 1 mL Carpuject syringes, 0.5 mg/0.5 mL 0.5 mL iSecure syringes, 1 mg/mL 1 mL iSecure syringes, 1 mg/mL 1 mL ampules, 2 mg/mL 1 mL ampules, and 4 mg/mL 1 mL ampules are on back order and the company cannot estimate a release date. The 2 mg/mL 1 mL iSecure syringes and 4 mg/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 and 5 mL vials on intermittent back order and the company is allocating product upon release. The 10 mg/mL 50 mL vials are on allocation.[5]
- West-Ward has hydromorphone 2 mg/mL 1 mL and 20 mL vials on back order and the company estimates a release date of February to March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=856

Epinephrine Injection

February 9, 2018

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 Dates

- 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 mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=685

Vecuronium Bromide Injection

February 10, 2018

Reason for the Shortage

- Pfizer has vecuronium on shortage due to manufacturing delays.
- Teva has vecuronium available.

- Pfizer sold vecuronium injection to Mylan Institutional in December 2013.
- Ben Venue has stopped production in its plant in Bedford, Ohio and closed in 2014.
- Sun Pharma refuses to provide information on availability of any of their products.
- Sagent is not marketing vecuronium 10 mg and 20 mg vials.
- Fresenius Kabi has vecuronium on shortage due to manufacturing delays.

Estimated Resupply Dates

- Fresenius Kabi has vecuronium 10 mg and 20 mg vials on back order and the company estimates a release date of early- to mid-April 2018.
- Mylan Institutional has vecuronium 10 mg and 20 mg vials on back order with an estimated release date of late-March 2018.
- Pfizer has vecuronium 10 mg and 20 mg vials on back order and the company estimates a release date of March 2019.
- Sun Pharma has vecuronium 10 mg and 20 mg vials on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=490

Remifentanil Injection

February 10, 2018

Reason for the Shortage

- Mylan Institutional did not provide a reason for the shortage.
- Fresnius Kabi launched generic remifentanil in January 2018.

Estimated Resupply Dates

- Mylan Institutional has Ultiva 1 mg, 2 mg, and 5 mg vials on back order and the company estimates a release date of late-March 2018 for the 1 mg vials, late-April 2018 for the 2 mg vials, and mid-April 2018 for the 5 mg vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1299

Octreotide Injection

February 10, 2018

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 did not provide a reason for the shortage.
- Teva has octreotide available.
- Novartis has Sandostatin available.
- West-Ward has octreotide available.

Estimated Resupply Dates

- Fresenius Kabi has octreotide 50 mcg/mL 1 mL vials on back order and the company estimates a release date of 1st quarter 2018.
- Mylan Institutional has octreotide 50 mcg/mL 1 mL syringes, 100 mcg/mL 1 mL syringes, and 500 mcg/mL 1 mL syringes on back order and the company estimates a release date of mid-February 2018.

- Sagent has octreotide 50 mcg/mL 1 mL vials on back order and the company estimates a release date of February 2018.
- Sun Pharma has all octreotide 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=803

Methadone Injection

February 10, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Mylan Institutional has methadone 10 mg/mL 20 mL vials on back order and the company estimates a release date of early- to mid-April 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1291

Diltiazem Hydrochloride Injection

February 10, 2018

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 Dates

- Akorn has diltiazem 5 mg/mL 5 mL and 10 mL vials on allocation. The 25 mL vials in 1 count and 10 counts are on allocation.
- 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 March 2019.
- West-Ward has diltiazem 5 mg/mL 5 mL, 10 mL, and 25 mL vials on back order and the company estimates a release date of March to April 2018 for the 5 mL vials, late-February to early-March 2018 for the 10 mL vials, and February 2018 for the 25 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1271

Chlorothiazide Sodium Injection

February 10, 2018

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 Dates

- Akorn has chlorothiazide 500 mg vials on back order and the company estimates a release date of mid-February 2018. Akorn has Sodium Diuril injection on back order and the company cannot estimate a release date.

- 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 late-February to early-March 2018.
- Mylan Institutional has chlorothiazide 500 mg vials on back order and the company estimates a release date of mid-February 2018.
- Sagent has chlorothiazide 500 mg vials on back order and the company estimates a release date of February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1296

Cefuroxime Sodium Injection

February 10, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Sagent has cefuroxime 750 mg vials on back order and the company cannot estimate a release date.
- Teligent has Zinacef 1.5 gram/ 50 mL frozen premixed bags, 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 available with a short expiration date of March 2018. The 1.5 gram vials are on back order and the company estimates a release date of February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=990

Alcohol Dehydrated Injection (Ethanol)

February 10, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- 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

23.4% Sodium Chloride Injection

February 10, 2018

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 Dates

- Fresenius Kabi has 23.4% sodium chloride 30 mL vials on intermittent back order and the company is releasing product as it becomes available. The 100 mL and 200 mL vials are on back

order and the company estimates a release date of early-March 2018 for the 100 mL vials and mid-February 2018 for the 200 mL vials.
- Pfizer has 23.4% sodium chloride 200 mL vials on back order and the company estimates a release date of mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1279

Sterile Water for Injection - Small Volume Vials

February 12, 2018

Reason for the Shortage

- Pfizer has sterile water for injection in vials on shortage due to manufacturing delays.
- Fresenius Kabi has sterile water on shortage due to increased demand.

Estimated Resupply Dates

- Fresenius Kabi has sterile water for injection 5 mL vials on back order and the company cannot estimate a release date. The 10 mL, 20 mL, 50 mL, and 100 mL vials are on back order and the company estimates a release date of early-March 2018 for the 10 mL vials, early- to mid-April 2018 for the 20 mL vials, early-April 2018 for the 50 mL vials, and late-March 2018 for the 100 mL vials. Check wholesalers for inventory.
- Pfizer has sterile water for injection 10 mL, 20 mL, 50 mL, and 100 mL vials are on back order and the company estimates a release date of early-March 2018 for the 10 mL vials, early-May 2018 for the 20 mL vials, mid-March 2018 for the 50 mL vials, and April 2018 for the 100 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1302

Ropivacaine Injection

February 12, 2018

Reason for the Shortage

- Akorn has ropivacaine on shortage due to increased demand.
- AuroMedics did not provide a reason for the shortage.
- Fresenius Kabi has Naropin on shortage due to increased demand and manufacturing delays.
- Pfizer has ropivacaine on shortage due to manufacturing delays.

Estimated Resupply Dates

- Akorn has ropivacaine 2 mg/mL 30 mL vials on back order and the company estimates a release date of late-January 2018.
- AuroMedics has ropivcaine 2 mg/mL 20 mL vials and 100 mL bottles and 5 mg/mL 20 mL and 30 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Pfizer has ropivacaine 2 mg/mL 10 mL and 20 mL vials on back order and the company estimates a release date of mid-February 2018 for the 10 mL vials and June 2018 for the 20 mL vials. The 5 mg/mL 30 mL vials are on back order and the company estimates a release date of early-April 2018. The 7.5 mg/mL 20 mL vials are on back order and the company estimates a release date of April 2018. The 10 mg/mL 10 mL and 20 mL vials are on back order and the company estimates a release date of June 2018.
- Fresenius Kabi has Naropin 2 mg/mL 10 mL and 20 mL vials on back order and the company estimates a release date of late-February to early-March 2018. The 2 mg/mL 10 mL and 20 mL

Steripak ampules are on back order and the company estimates a release date of late-February to early-March 2018. The 2 mg/mL 100 mL and 200 mL bottles are on back order and the company estimates a release date of mid-March 2018 for the 100 mL bottles and early-March 2018 for the 200 mL bottles. The 2 mg/mL 100 mL and 200 mL premixed bags are on back order and the company estimates a release date of late-February to early-March 2018 for the 100 mL bags and cannot estimate a release date for the 200 mL bags. The 5 mg/mL 20 mL and 30 mL Steripak ampules are on back order and the company estimates a release date of mid- to late-March 2018. The 5 mg/mL 100 mL and 200 mL bottles are on back order and the company estimates a release date of early-March 2018. The 7.5 mg/mL 20 mL vials are on back order and the company estimates a release date of mid- to late-March 2018.

- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=854

Procainamide Hydrochloride Injection

February 12, 2018

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-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=868

Potassium Phosphate Injection

February 12, 2018

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 on back order and the company estimates a release date of late-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=709

Mitoxantrone Hydrochloride Injection

February 12, 2018

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 Dates

- Fresenius Kabi has mitoxantrone 2 mg/mL 15 mL vials available with an expiration date of <4 months. The mitoxantrone 2 mg/mL 10 mL vials are on back order and the company estimates a release date of mid- to late-February 2018.
- Pfizer has mitoxantrone 2 mg/mL 15 mL vials on back order and the company estimates a release date of March 2018.
- Teva has temporarily discontinued mitoxantrone 10 mL vials and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1212

Mepivacaine Injection

February 12, 2018

Reason for the Shortage

- Fresenius Kabi has Polocaine and Polocaine-MPF available.
- Pfizer states the reason for the shortage is manufacturing delays.

Estimated Resupply Dates

- Pfizer has Carbocaine 1% 50 mL multiple-dose vials on back order and the company estimates a release date of mid-February 2018. Carbocaine 1% 30 mL preservative-free vials are available in limited supply. Carbocaine 1.5% 30 mL preservative-free vials are on back order and the company estimates a release date of March 2019. Carbocaine 2% 50 mL multiple-dose vials are back order and the company estimates a release date of late-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=954

Magnesium Sulfate Injection

February 12, 2018

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 Dates

- Fresenius Kabi has magnesium sulfate 500 mg/mL 10 mL, 20 mL, and 50 mL vials on back order and the company estimates a release date of mid-February 2018 for the 10 mL vials, late-February to early-March 2018 for the 20 mL vials, and late-March 2018 for the 50 mL vials. The 40 mg/mL 500 mL and 1,000 mL premixed bags are available with expiration dates of <2 months for the 500 mL premixed bags and <4 months for the 1,000 mL premixed bags.
- Pfizer has magnesium sulfate 500 mg/mL 20 mL vials on back order and the company estimates a release date of June 2018. The magnesium sulfate 40 mg/mL 50 mL, 100 mL, and 1,000 mL bags are on back order and the company estimates a release date of late-February 2018 for the 50 mL bags, early-March 2018 for the 100 mL bags, and late-February 2018 for the 1,000 mL bags. The 40 mg/mL 500 mL bags are available in limited supply.
- X-Gen has 500 mg/mL 10 mL vials on back order and the company estimates a release date of mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=757

Lidocaine with Epinephrine Injection

February 12, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Pfizer has 0.5% lidocaine with epinephrine (1:200,000) 50 mL on back order and the company estimates a release date of June 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-March 2018. The 1% lidocaine with epinephrine (1:100,000) 30 mL and 50 mL vials are on intermittent back order and the company is releasing product as it becomes available. The 1.5% lidocaine with epinephrine (1:200,000) 30 mL vials are on back order and the company estimates a release date of September 2018. The 1.5% lidocaine with epinephrine (1:200,000) 5 mL ampules are on back order and the company estimates a release date of mid-February 2018. The 2% lidocaine with epinephrine (1:200,000) 20 mL vials are on back order and the company estimates a release date of March 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 June 2018 for the 20 mL and 30 mL vials and mid-February 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 cannot estimate a release date. 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 with epinephrine (1:200,000) 10 mL vials are on back order and the company estimates a release date of late-February to early-March 2018. The 1% Xylocaine-MPF with epinephrine (1:200,000) 10 mL and 30 mL vials are on back order and the company estimates a release date of mid- to late-February 2018. 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 estimates a release date of late-February to early-March 2018. 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

Labetalol Injection

February 12, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Pfizer has labetalol 5 mg/mL 4 mL syringes on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=397

Ketamine Injection

February 12, 2018

Reason for the Shortage

- Mylan Institutional did not provide a reason for the shortage.
- Par has Ketalar on shortage due to increased demand.
- Pfizer has ketamine on shortage due to manufacturing delays.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Dates

- Mylan Institutional has ketamine 10 mg/mL 20 mL vials, 50 mg/mL 10 mL vials, and 100 mg/mL 10 mL vials on back order and the company estimates a release date of mid-February 2018 for the 10 mg/mL 20 mL vials, late-February 2018 for the 50 mg/mL 10 mL vials, and late-March 2018 for the 100 mg/mL 10 mL vials.
- Pfizer has ketamine 50 mg/mL 10 mL vials and 100 mg/mL 5 mL vials on back order and the company estimates a release date of March 2019.
- West-Ward has ketamine 50 mg/mL 10 mL vials and 100 mg/mL 5 mL vials on back order and the company estimates a release date of March to April 2018.
- Par has Ketalar 10 mg/mL 20 mL vials, 50 mg/mL 10 mL vials, and 100 mg/mL 5 mL vials on back order and the company estimates a release date of mid-February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=592

Fentanyl Citrate Injection

February 12, 2018

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 Dates

- Akorn has Sublimaze 50 mcg/mL 2 mL ampules in 10 count and 25 count and 5 mL ampules in 10 counts and 25 counts on allocation.
- Pfizer has fentanyl 50 mcg/mL 2 mL and 5 mL ampules on back order and the company estimates a release date of early-March 2018 for the 2 mL ampules and late-February 2018 for the 5 mL ampules. The 2 mL Carpuject syringes are on back order and the company estimates a release date of June 2019. The 2mL, 5 mL, 20 mL, and 50 mL vials are on back order and the

company estimates a release date of mid-February 2018 for the 2 mL vials, mid-March 2018 for the 5 mL vials, early-April 2018 for the 20 mL vials, and mid-March 2018 for the 50 mL vials.
- West-Ward has fentanyl 50 mcg/mL 2 mL, 5 mL, and 50 mL vials on allocation. 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

Erythromycin Lactobionate Injection

February 12, 2018

Reason for the Shortage

- Pfizer has Erythrocin on shortage due to manufacturing delays.

Estimated Resupply Dates

- Pfizer has Erythrocin 500 mg ADD-Vantage vials on back order and the company estimates a release date of March 2018. The Erythrocin 500 mg regular vials are on back order and the company estimates a release date of September 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=546

Dopamine Hydrochloride Injection

February 12, 2018

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 Dates

- 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 late-February 2018. The 800 mg/500 mL premixed bags are on back order and the company estimates a release date of late-February 2018. The 800 mg/250 mL premixed bags are on back order and the company estimates a release date of late-February 2018. The 40 mg/mL 5 mL vials are on back order and the company estimates a release date of late-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1243

Dexamethasone Sodium Phosphate

February 12, 2018

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 Dates

- American Regent has dexamethasone sodium phosphate 4 mg/mL products on back order and the company cannot estimate a release date.
- AuroMedics has dexamethasone sodium phosphate 4 mg/mL 1 mL and 5 mL vials on intermittent back order and the company is releasing product as it becomes available.
- Fresenius Kabi has dexamethasone sodium phosphate 4 mg/mL 1 mL prefilled syringes available with an expiration date of <5 months.
- Mylan Institutional has dexamethasone 4 mg/mL 1 mL and 5 mL vials on back order and the company estimates a release date of mid-May 2018 for the 1 mL vials and mid-March 2018 for the 5 mL vials.
- 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

Carbidopa and Levodopa Extended-Release Tablets

February 12, 2018

Reason for the Shortage

- Accord has discontinued carbidopa and levodopa 25 mg/100 mg extended-release tablets. The 50 mg/200 mg tablets are on shortage due to problems obtaining active ingredient.
- Sun Pharma has carbidopa and levodopa extended-release tablets on shortage due to increased demand.
- Merck has Sinemet CR on shortage due to increased demand.
- Mylan could not provide a reason for the shortage.

Estimated Resupply Dates

- Accord has carbidopa and levodopa 50 mg/200 mg extended-release tablets on back order and the company cannot estimate a release date.
- Mylan Institutional has carbidopa and levodopa 50 mg/200 mg extended-release tablets in 100 count bottles on back order and the company estimates a release date of mid-February 2018.
- Sun Pharma has carbidopa and levodopa 25 mg/100 mg and 50 mg/200 mg extended-release tablets available in limited supply.
- Merck has Sinemet CR 25 mg/100 mg extended-release tablets in 100 count bottles on back order and the company estimates a release date of February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1181

Bupivacaine with epinephrine Injection

February 12, 2018

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 estimates a release date of mid-February 2018. The 0.25% Sensorcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of mid-February 2018. 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 estimates a release date of mid- to late-February 2018. 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 estimates a release date of mid- to late-March 2018. 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 June 2018 for the 10 mL vials and mid-February 2018 for the 30 mL vials. The 0.25% bupivacaine with epinephrine 50 mL vials are on back order and the company estimates a release date of June 2018. The 0.5% bupivacaine with epinephrine 10 mL preservative-free vials are on back order and the company estimates a release date of late-February 2018. The 0.5% bupivacaine with epinephrine 30 mL preservative-free vials are on back order and the company estimates a release date of late-February 2018. The 0.5% bupivacaine with epinephrine 50 mL vials are on back order and the company estimates a release date of June 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 March 2019. The 0.25% Marcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of March 2019. 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 March 2019. The 0.5% Marcaine with epinephrine 50 mL vials are on back order and the company estimates a release date of March 2019.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=937

Amiodarone Injection

February 12, 2018

Reason for the Shortage

- Baxter had Nexterone premixed bags on shortage due to manufacturing delays.
- Mylan Institutional did not provide a reason for the shortage.
- West-Ward did not provide a reason for the shortage.

Estimated Resupply Dates

- Fresenius Kabi has amiodarone 50 mg/mL 3 mL and 9 mL vials on back order and the company estimates a release date of mid-February 2018.
- West-Ward has amiodarone 50 mg/mL 3 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=1300

Aminocaproic Acid Injection
February 12, 2018

Reason for the Shortage
- Pfizer has aminocaproic acid on shortage due to manufacturing delays.

Estimated Resupply Dates
- Pfizer has aminocaproic acid 250 mg/mL 20 mL vials on back order and the company estimates a release date of mid-April 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=789

Selenium Injection
February 13, 2018

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

Estimated Resupply Dates
- American Regent has selenium 40 mcg/mL 10 mL vials on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=784

Multiple Vitamins for Infusion
February 13, 2018

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

Estimated Resupply Dates
- Pfizer has M.V.I. adult 50 mL Dual vials on back order and the company estimates a release date of late-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=831

Lorazepam Injection
February 13, 2018

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. Pfizer discontinued 4 mg/mL 10 mL vials in December 2017.
- Akorn has not provided a reason for the shortage.
- Amphastar has product available.

Estimated Resupply Dates
- Pfizer has lorazepam 2 mg/mL 1 mL Carpuject syringes on back order and the company cannot estimate a release date. The 2 mg/mL 1 and 10 mL vials are on back order and the company

estimates a release date of early-March 2018 for the 1 mL vials and June 2018 for the 10 mL vials. The 4 mg/mL 1 mL vials are on back order and the company estimates a release date of late-March 2018. 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 4 mg/mL 1 mL and 10 mL vials are on back order and the company estimates a release date of late-February to early-March 2018 for the 1 mL vials and March to April 2018 for the 10 mL vials.
- West-Ward has Ativan 2 mg/mL 1 mL and 10 mL vials on back order and the company estimates a release date of late-February to early-March 2018 for the 1 mL vials and March to April 2018 for the 10 mL vials.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1270

Dextrose (25%) Injection

February 13, 2018

Reason for the Shortage
- Pfizer has 25% dextrose injection on shortage due to manufacturing delays.

Estimated Resupply Dates
- Pfizer has 25% dextrose 10 mL Ansyr syringes on back order and the company estimates a release date of late-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1011

Atenolol Tablets

February 13, 2018

Reason for the Shortage
- Mylan, Sandoz, and Teva did not provide a reason for the back order.
- Zydus states increased demand as the reason for the back order.
- Ranbaxy refuses to provide us with any information regarding drug availability.
- Major discontinued atenolol 25 mg unit-dose tablets.

Estimated Resupply Dates
- Sandoz has all atenolol tablets temporarily unavailable and the company cannot estimate a release date.
- Teva has atenolol 25 mg in 100 count and 1000 count and 50 mg in 100 count and 1000 count on back order and the company estimates a release date of late-February to early-March 2018.
- Zydus has all presentations of atenolol 25 mg, 50 mg, and 100 mg tablets on allocation.
- Almatica has Tenormin 100 mg tablets on back order and the company cannot estimate a release date. The 25 mg and 50 mg tablets are on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1127

Tobramycin Injection

February 14, 2018

Reason for the Shortage
- Akorn has tobramycin injection on shortage due to manufacturing delays.
- Pfizer did not provide a reason for the shortage.

Estimated Resupply Dates

- Akorn has tobramycin 40 mg/mL 30 mL vials available with an expiration date greater than or equal to October 2018.
- Mylan Institutional has tobramycin 40 mg/mL 2 mL vials on back order and the company estimates a release date of mid-March 2018.
- Teva has temporarily discontinued tobramycin 40 mg/mL 2 mL vials
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=701

Rocuronium Injection

February 14, 2018

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 Dates

- 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 vials on back order and the company estimates a release date of late-February to early-March 2018.
- Sagent has rocuronium 10 mg/mL 5 mL and 10 mL vials on back order and the company estimates a release date of February 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=434

Ciprofloxacin Injection

February 14, 2018

Reason for the Shortage

- Pfizer has ciprofloxacin injection on shortage due to manufacturing delays.
- Claris did not provide a reason for the shortage.

Estimated Resupply Dates

- Claris has ciprofloxacin 2 mg/mL 100 mL and 200 mL premixed bags on back order and the company cannot estimate a release date.
- Pfizer has ciprofloxacin 2 mg/mL 200 mL premixed bags on back order and the company estimates a release date of mid-March 2018.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=944

Sterile Water for Injection Large Volume Bags

February 15, 2018

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 2000 mL bags on back order and the company cannot estimate a release date. The 1000 mL, 3000 mL, and 5000 mL bags are on allocation.
- BBraun has all sterile water for injection bags on allocation to current customers.
- ICU Medical has sterile water for injection 1000 mL and 2000 mL bags available in limited supply.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1132

Lidocaine Hydrochloride and 5% Dextrose injection

February 15, 2018

Reason for the Shortage

- Baxter did not provide a reason for the shortage.
- BBraun did not provide a reason for the shortage

Estimated Resupply Dates

- Baxter has lidocaine and 5% dextrose 4 mg/mL 500 mL and 8 mg/mL 250 mL premixed bags on back order and the company cannot estimate a release date.
- BBraun has lidocaine and 5% dextrose 4 mg/mL 250 mL, 4 mg/mL 500 mL, and 8 mg/mL 250 mL premixed bags on intermittent back order and supplies are being allocated upon release.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1177

Lactated Ringer's Injection

February 15, 2018

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 Dates

- Baxter has lactated ringer's 500 mL and lactated ringer's with 5% dextrose 500 mL and 1000 mL on back order and the company cannot estimate a release date. Lactated ringer's 250 mL injection solution is available in limited quantities.
- BBraun has lactated ringer's injection solution and lactated ringer's with 5% dextrose injection solution products on allocation to current customers.
- ICU Medical has lactated ringer's 250 mL and 500 mL bags on back order and the company estimates a release date of early-February 2018 for the 250 mL bags and late-January 2018 for the 500 mL bags. Lactated ringer's with 5% dextrose 500 mL bags are on back order and the company estimates a release date in late-January 2018. Lactated ringer's 1000 mL and lactated ringer's with 5% dextrose 1000 mL bags are on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1294

Diclofenac 0.1% Ophthalmic Solution

February 15, 2018

Reason for the Shortage

- Akorn did not provide a reason for the shortage.
- Rising pharmaceuticals did not provide a reason for the shortage.
- Sandoz did not provide a reason for the shortage.

Estimated Resupply Dates
- Akorn has diclofenac 0.1% ophthalmic solution on long-term back order.
- Rising Pharmaceuticals has diclofenac 0.1% ophthalmic solution in 2.5 mL and 5 mL bottles available with short expiration dating (May 2018).
- Sandoz has diclofenac 0.1% ophthalmic solution in 2.5 mL and 5 mL bottles on back order and the company estimates a release date of mid-February 2018 for the 2.5 mL bottles and late-February 2018 for the 5 mL bottles.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1313

Dexmedetomidine Hydrochloride in 0.9% Sodium Chloride Injection
February 15, 2018

Reason for the Shortage
- Pfizer did not provide a reason for the shortage.

Estimated Resupply Dates
- Pfizer has Precedex 4 mcg/mL 20 mL vials on back order and the company estimates a release date in June 2018. Precedex 4 mcg/mL 50 mL and 100 mL premixed bottles are on allocation.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1263

Ciprofloxacin Oral Suspension
February 15, 2018

Reason for the Shortage
- Lupin did not provide a reason for the shortage.
- Bayer has Cipro oral suspension available.

Estimated Resupply Dates
- Lupin has ciprofloxacin oral suspension 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=1247

Bendamustine Hydrochloride Injection
February 15, 2018

Reason for the Shortage
- Teva did not provide a reason for the shortage of Bendeka.
- Teva has Treanda available through specialty oncology distributors.

Estimated Resupply Dates
- Teva has Bendeka on back order and the company cannot estimate a release date.
- https://www.ashp.org/Drug-Shortages/Current-Shortages/Drug-Shortage-Detail.aspx?id=1314

0.9% Sodium Chloride Large Volume Bags Injection Bags

February 15, 2018

Reason for the Shortage

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

Estimated Resupply Dates

- Baxter has 0.9% sodium chloride 1000 mL PVC/DEHP-free bags on back order and the company estimates a release date in mid-February 2018. All other presentations are on allocation.
- BBraun has 0.9% sodium chloride 250 mL, 500 mL, and 1,000 mL PVC/DEHP-free bags on allocation to current customers.
- Pfizer has 0.9% sodium chloride 150 mL and 250 mL bags on allocation. The 500 mL, 1000 mL, 250 mL PVC/DEHP-free, 250 mL 2-port bags, and 500 mL 2-port 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=1288

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