
A^{PhA} **DrugInfoLine[®]**

October 2018

[Focus on Diabetes Care](#)

Advising on this article: Charles D. Ponte

October 1, 2018

Some older adults with type 2 diabetes may be overtreated

Key Point

Approximately one-quarter of older adults (>75 y) with type 2 diabetes were treated with medications associated with a high risk of hypoglycemia to achieve tight glycemic control, according to an observational analysis of a large U.S. outpatient cohort published in the Journal of the American Geriatrics Society.

Source URL:

<http://www.aphadruonline.com/focus-diabetes-care/some-older-adults-type-2-diabetes-may-be-overtreated>

Cardiology

Advising on this article: Eric MacLaughlin

October 1, 2018

Three-drug, low-dose, fixed-combination product is effective for BP control

Key Point

A three-drug, low-dose, fixed-combination dosage form resulted in better blood pressure (BP) control at 6 months compared with usual care in patients with mild to moderate hypertension, according to results of a randomized trial published in JAMA.

Source URL:

<http://www.aphadruginfoline.com/cardiology/three-drug-low-dose-fixed-combination-product-effective-bp-control>

[Infectious Diseases](#)

Advising on this article: Allana Sucher

October 9, 2018

Patients labeled as penicillin-allergic and MRSA and C. difficile infections

Key Point

The risk of methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* infections was higher in patients who reported a penicillin allergy compared with those who did not, according to results of an observational study published in BMJ. The risks of developing MRSA and *C. difficile* were reportedly mediated by use of alternative broad-spectrum non-beta-lactam antibiotics.

Source URL:

<http://www.aphadruginfoline.com/infectious-diseases/patients-labeled-penicillin-allergic-and-mrsa-and-c-difficile-infections>

[Gastroenterology](#)

Advising on this article: C. Wayne Weart

October 9, 2018

Glutamine may be an option for postinfectious irritable bowel syndrome

Key Point

Use of glutamine supplementation in patients with postinfectious diarrhea-predominant irritable bowel syndrome (IBS-D) resulted in greater improvements in gastrointestinal (GI) symptoms and changes in daily bowel movement frequency, stool form, and intestinal permeability compared with placebo, according to results of a small study published in *Gut*.

Source URL:

<http://www.aphadruginfoline.com/gastroenterology/glutamine-may-be-option-postinfectious-irritable-bowel-syndrome>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 1, 2018

Cemiplimab-rwlc

(Libtayo—Regeneron Pharmaceuticals)

FDA approves first treatment for advanced form of the second most common skin cancer

Uses/Notes

[FDA approved](#) cemiplimab-rwlc injection for I.V. use for the treatment of patients with metastatic cutaneous squamous cell carcinoma (CSCC) or locally advanced CSCC who are not candidates for curative surgery or curative radiation. This is the first FDA approval of a drug specifically for advanced CSCC.

By blocking the PD-1 pathway, cemiplimab-rwlc may help the body's immune system fight the cancer cells.

Safety and efficacy of cemiplimab-rwlc was studied in two open-label clinical trials. Results showed that 47.2% percent of all patients treated with the agent had their tumors shrink or disappear. The majority of these patients had ongoing responses at the time of data analysis.

Common adverse effects of cemiplimab-rwlc include fatigue, rash, and diarrhea. The agent must be dispensed with a patient Medication Guide that describes uses of the drug and its serious warnings.

Serious adverse reactions include the risk of immune-mediated adverse reactions such as pneumonitis, colitis, hepatitis, endocrinopathies, and dermatologic and kidney problems. Patients should also be monitored for infusion-related reactions.

Because the agent can cause harm to a developing fetus, women should be advised of the potential risk to the fetus and to use effective contraception.

Source URL:

<http://www.aphadruginfoline.com/new-drug-approvals/fda-approves-first-treatment-advanced-form-second-most-comm-on-skin-cancer>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 1, 2018

Amikacin liposome inhalation suspension

Uses/Notes

[FDA approved](#) amikacin liposome inhalation suspension to treat lung disease caused by a group of bacteria, Mycobacterium avium complex (MAC), in a limited population of patients with the disease who do not respond to conventional treatment. The drug is an inhaled treatment taken through a nebulizer.

MAC is a type of nontuberculous mycobacteria (NTM) commonly found in water and soil. Symptoms of disease in patients with MAC include persistent cough, fatigue, weight loss, night sweats, and occasionally, shortness of breath and coughing up of blood.

It is the first drug to be approved under the [Limited Population Pathway for Antibacterial and Antifungal Drugs](#), or LPAD pathway, established by Congress under the [21st Century Cures Act](#) to advance development and approval of antibacterial and antifungal drugs to treat serious or life-threatening infections in a limited population of patients with unmet need. Approval under the LPAD pathway may be supported by a streamlined clinical development program. These programs may involve smaller, shorter, or fewer clinical trials. As required for drugs approved under the LPAD pathway, the labeling includes certain statements to convey that the drug has been shown to be safe and effective only for use in a limited population.

Approval was based on achieving three consecutive negative monthly sputum cultures by month six of treatment. FDA requires the sponsor to conduct an additional postmarketing study to describe the drug's clinical benefits.

Safety and efficacy were demonstrated in a randomized, controlled clinical trial in which patients were assigned to one of two treatment groups: one group receiving amikacin plus a background multidrug antibacterial regimen, and the other group receiving a background multidrug antibacterial regimen alone.

By the sixth month of treatment, 29% percent of patients treated with amikacin had no growth of mycobacteria in their sputum cultures for three consecutive months,

(Arikayce—Insmed)

New antibacterial drug treats serious lung disease caused by *Mycobacterium avium* complex

compared with 9% of patients who were not treated with amikacin.

The prescribing information includes a boxed warning about the increased risk of respiratory conditions. Other common adverse effects are difficulty speaking, cough, damaged hearing, upper airway irritation, musculoskeletal pain, fatigue, diarrhea, and nausea.

Source URL:

<http://www.aphadruonline.com/new-drug-approvals/new-antibacterial-drug-treats-serious-lung-disease-caused-mycobacterium-avium>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 1, 2018

Galcanezumab-gnlm

(*Emgality—Eli Lilly*)

New drug approved for preventive treatment of migraine in adults

Uses/Notes

[FDA has approved](#) galcanezumab-gnlm, a calcitonin gene-related peptide (CGRP) antagonist, as a once-monthly, self-administered, S.C. 120-mg injection for preventive treatment of migraine in adults.

Efficacy and safety of galcanezumab-gnlm were demonstrated in two Phase III clinical trials (EVOLVE-1 and EVOLVE-2) in patients with episodic migraine and one Phase III clinical trial (REGAIN) in patients with chronic migraine.

Safety was evaluated in three clinical trials that included more than 2,500 patients. Hypersensitivity reactions (e.g., rash, urticaria and dyspnea) have been reported in clinical studies, can occur days after administration, and may be prolonged. The most common adverse effects were injection-site reactions.

The recommended dose for galcanezumab-gnlm is 240 mg (two consecutive S.C. injections of 120 mg each), once as a loading dose, followed by monthly doses of 120 mg injected subcutaneously.

Galcanezumab-gnlm is contraindicated in patients with serious hypersensitivity to galcanezumab-gnlm or to any of the excipients.

Patients with commercial insurance are candidates to receive galcanezumab-gnlm for up to 12 months free as part of Lilly's patient support program.

Source URL:

<http://www.aphadruginfoline.com/new-drug-approvals/new-drug-approved-preventive-treatment-migraine-adults>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 2, 2018

Testosterone enanthate

(*Xyosted*—*Antares Pharma*)

FDA approves first S.C. testosterone enanthate injection for once-weekly, at-home self-administration

Uses/Notes

[Antares Pharma announced](#) FDA approval of testosterone enanthate, the first testosterone replacement therapy for conditions associated with a deficiency or absence of endogenous testosterone in adult males.

The product is self-administered subcutaneously once weekly at home with an easy-to-use, single-dose, disposable QuickShot auto injector. It comes in three dosage strengths: 50 mg, 75 mg, and 100 mg.

In Phase III clinical trials, the product was shown to produce physiologically normal levels of testosterone with a narrow peak-to-trough ratio. According to the principal investigator, the S.C. dosing removes transfer concerns commonly associated with gels and potentially reduces the need for in-office injection procedures that may require more frequent patient visits.

The product can cause blood pressure elevations that can increase the risk for major adverse cardiovascular events (MACE), including nonfatal myocardial infarction, nonfatal stroke and cardiovascular death, with greater risk for MACE in patients with cardiovascular risk factors or established cardiovascular disease.

The most commonly reported adverse reactions in clinical trials were hematocrit increases, hypertension, prostate-specific antigen increases, injection-site bruising, and headache.

Recommended dosage is 100–400 mg every 4 weeks.

Source URL:

<http://www.aphaduginfoline.com/new-drug-approvals/fda-approves-first-sc-testosterone-enchate-injection-once-weekly-home-self>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 2, 2018

Sarecycline

(Seysara—Almiral)

New oral antibiotic targets moderate to severe acne

Uses/Notes

[Amirall announced](#) FDA approval of sarecycline, an innovative first-in-class tetracycline-derived oral antibiotic for treatment of inflammatory lesions of non-nodular moderate to severe acne vulgaris in patients aged 9 years and older.

Sarecycline is an oral tablet that is taken once daily with or without food. It has proven to significantly reduce inflammatory lesions as early as 3 weeks after start of treatment and is generally safe and well tolerated.

Safety of the product was established in two 12-week multicenter, randomized, double-blind, placebo-controlled studies. Efficacy was assessed in 2,002 participants aged 9 years and older. Efficacy of sarecycline beyond 12 weeks and safety beyond 12 months have not been established.

Sarecycline has not been evaluated for treatment of infections. To reduce the development of drug-resistant bacteria as well as to maintain the effectiveness of other antibacterial drugs, patients should use sarecycline only as indicated. The product is contraindicated in persons who have shown hypersensitivity to any of the tetracyclines.

Use during tooth development may cause permanent discoloration of the teeth. If *Clostridium difficile*-associated diarrhea (antibiotic-associated colitis) or intracranial hypertension occurs, use should be discontinued. Central nervous system adverse effects, including light-headedness, dizziness, or vertigo, have been reported with tetracycline use. The most common adverse reaction is nausea.

Sarecycline is expected to be launched in January 2019.

Source URL:

<http://www.aphadruginfoline.com/new-drug-approvals/new-oral-antibiotic-targets-moderate-severe-acne>

[New Drug Approvals](#)

Generic Name (Trade Name—Company)

October 4, 2018

Omadacycline

Uses/Notes

[Paratek announced](#) FDA approval of omadacycline 100 mg for injection/150 mg tablets for treatment of community-acquired bacterial pneumonia (CABP) and acute skin and skin structure infections (ABSSSI) in adults.

Omadacycline, a modernized tetracycline, is a once-daily I.V. and oral antibiotic that targets a spectrum of bacteria, including Gram-positive, Gram-negative, atypicals, and drug-resistant strains.

Approval was supported by multiple clinical trials involving nearly 2,000 adult patients.

Warnings and precautions include the following:

Use during tooth development (last half of pregnancy, infancy, and childhood to age 8) may cause permanent discoloration of the teeth (yellow-gray-brown) and enamel hypoplasia.

Use during the second and third trimester of pregnancy, infancy and childhood up to age 8 years may cause reversible inhibition of bone growth.

Omadacycline is structurally similar to other tetracycline-class antibacterial drugs and is contraindicated in patients with known hypersensitivity to tetracycline-class antibacterial drugs.

Clostridium difficile-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents and may range in severity from mild diarrhea to fatal colitis.

The most common adverse reactions (incidence ≥2%) in clinical trials were nausea, vomiting, infusion-site reactions, alanine aminotransferase increased, aspartate aminotransferase increased, gamma-glutamyl transferase increased, hypertension, headache, diarrhea, insomnia, and constipation.

The drug is expected to become available in the first quarter of 2019.

(Nuzyra—Paratek)

FDA approves once-daily I.V. and oral antibiotic for treatment of CABP and ABSSI

Source URL:

<http://www.aphadruginfoline.com/new-drug-approvals/fda-approves-once-daily-iv-and-oral-antibiotic-treatment-cabp-and-abssi>

Alerts and Recalls

Generic Name (Trade Name—Company)

October 4, 2018

No generic name

(NeoRelief for Muscle Cramping and Restlessness Topical Gel—BioLyte Laboratories/King Bio Inc.)

Topical gel recalled due to possible microbial contamination

Uses/Notes

BioLyte Laboratories is voluntarily [recalling](#) lot numbers 1138, 1139, 1146, and 1160 of NeoRelief for Muscle Cramping and Restlessness Topical Gel to the retail and consumer level.

King Bio Inc., a manufacturer of some of the active ingredients in this product, has been found to have some water contamination issues that could have affected this product. King Bio has issued a recall of these active ingredients in BioLyte's lot specific product.

Administration or use of drug products with microbial contamination could result in increased infections that may require medical intervention or that could be life threatening to certain individuals.

| Lot Number | Expiry | UPC | Size | Package type |
|------------|----------------|------------------|------|------------------------------------|
| 1138 | 1/31/2020 | 35836800 2021 | 2 oz | white airless pump bottle |
| 1139 | 1/31/2020 | 35836800 2021 | 2 oz | white airless pump bottle |
| 1146 | 3/29/2020 | 35836800 2045 | 4 ml | 4" x 2" mylar foil pack |
| 1160 | 10/10/201 9 | 35836800 2021 | 2 oz | white airless pump bottle |

BioLyte Laboratories is notifying its retail partners, distributors, and customers by letter and is arranging for return and replacement of the recalled product.

To date, there have been no reports of illness or injury due to use of this product.

Source URL:

<http://www.aphadruginfoline.com/alerts-and-recalls/topical-gel-recalled-due-possible-microbial-contamination>

[Supplemental Approvals](#)

Generic Name (Trade Name—Company)

October 9, 2018

Human papillomavirus 9-valent vaccine, recombinant

Uses/Notes

[FDA approved](#) a supplemental application for human papillomavirus (HPV) 9-valent vaccine, recombinant (Gardasil 9), expanding the approved use to include women and men aged 27 through 45 years. Gardasil 9 prevents certain cancers and diseases caused by the nine HPV types covered by the vaccine.

Gardasil, a vaccine approved by FDA in 2006 to prevent certain cancers and diseases caused by four HPV types, is no longer distributed in the United States. In 2014, FDA approved Gardasil 9, which covers the same four HPV types as Gardasil, as well as an additional five HPV types. Gardasil 9 was approved for use in males and females aged 9 through 26 years.

Effectiveness of Gardasil is relevant to Gardasil 9 since the vaccines are manufactured similarly and cover four of the same HPV types. In a study in approximately 3,200 women aged 27 through 45 who were followed for an average of 3.5 years, Gardasil was 88% effective in preventing a combined endpoint of persistent infection, genital warts, vulvar and vaginal precancerous lesions, cervical precancerous lesions, and cervical cancer related to HPV types covered by the vaccine.

FDA's approval of Gardasil 9 in women aged 27 through 45 is based on these results and new data on long-term follow-up from this study.

Effectiveness of Gardasil 9 in men aged 27 through 45 is inferred from the data described above in women aged 27 through 45, as well as efficacy data from Gardasil in younger men (aged 16–26 y) and immunogenicity data from a clinical trial in which 150 men, aged 27 through 45, received a three-dose regimen of Gardasil over 6 months.

Safety of Gardasil 9 was evaluated in approximately 13,000 males and females. The most commonly reported adverse reactions were injection-site pain, swelling, redness, and headaches.

FDA granted the Gardasil 9 application priority review status. This program facilitates and expedites the review

(Gardasil 9—Merck, Sharp & Dohme)

of medical products that address a serious or life-threatening condition.

FDA approves expanded use of Gardasil 9 to include individuals aged 27 through 45 years

Source URL:

<http://www.aphadruginfoline.com/supplemental-approvals/fda-approves-expanded-use-gardasil-9-include-individuals-aged-27-through-45>

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