

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use DAPTOMYCIN FOR INJECTION safely and effectively. See full prescribing information for DAPTOMYCIN FOR INJECTION.

—DOSAGE FORMS AND STRENGTHS— 500 mg lyophilized powder for reconstitution in a single-dose vial (3)

—CONTRAINDICATIONS— Known hypersensitivity to daptomycin (4)

—WARNINGS AND PRECAUTIONS— Anaphylaxis/hypersensitivity reactions (including life-threatening); Discontinue Daptomycin for Injection and treat signs/symptoms. (5.1) Myopathy and rhabdomyolysis: Monitor CPK levels and follow muscle pain or weakness; if elevated CPK or myopathy occurs, consider discontinuation of Daptomycin for Injection. (5.2) Eosinophilic pneumonia: Discontinue Daptomycin for Injection and consider treatment with systemic steroids. (5.3) Peripheral neuropathy: Monitor for neuropathy and consider discontinuation. (5.4) Potential nervous system and/or muscular system effects in pediatric patients younger than 12 months: Avoid use of Daptomycin for Injection in this age group. (5.5) Clostridium difficile-associated diarrhea: Evaluate patients if diarrhea occurs. (5.6) Persisting or relapsing *S. aureus* bacteremia/endocarditis: Perform susceptibility testing and rule out sequestered foci of infection. (5.7) Decreased efficacy was observed in patients with moderate baseline renal impairment. (5.8)

—RECENT MAJOR CHANGES— Dosage and Administration (2.5) 8/2016

—INDICATIONS AND USAGE— Daptomycin for Injection is a lipopeptide antibacterial indicated for the treatment of:

- Complicated skin and skin structure infections (cSSSI) (1.1)
- *Staphylococcus aureus* bloodstream infections (bacteremia), including those with right-sided infective endocarditis (1.2)
- Daptomycin for Injection is not indicated for the treatment of pneumonia. (1.3)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Daptomycin for Injection and other antibacterial drugs, Daptomycin for Injection should be used to treat infections that are proven or strongly suspected to be caused by bacteria.

—DOSAGE AND ADMINISTRATION—

- Recommended dosage regimen for adult patients (2.2, 2.3, 2.4):

| Creatinine Clearance (CL _{CR}) | Dosage Regimen | |
|---|------------------------------|--|
| | cSSSI For 7 to 14 days | <i>S. aureus</i> Bacteremia For 2 to 6 weeks |
| ≥30 mL/min | 4 mg/kg once every 24 hours | 6 mg/kg once every 24 hours |
| <30 mL/min, including hemodialysis and CAPD | 4 mg/kg once every 48 hours* | 8 mg/kg once every 48 hours* |

* When possible, administer Daptomycin for Injection following the completion of hemodialysis on hemodialysis days.

† Do not use in conjunction with ReadyMED® elastomeric infusion pumps. (2.7)

† Administered following hemodialysis on hemodialysis days

• Administered intravenously in 0.9% sodium chloride, either by Injection over a 2-minute period or by infusion over a 30-minute period. (2.1, 2.5)

• Do not use in conjunction with ReadyMED® elastomeric infusion pumps. (2.7)

† Administered following hemodialysis on hemodialysis days

• Administered intravenously in 0.9% sodium chloride, either by Injection over a 2-minute period or by infusion over a 30-minute period. (2.1, 2.5)

• Do not use in conjunction with ReadyMED® elastomeric infusion pumps. (2.7)

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* Sections or subsections omitted from the full prescribing information are not listed.

When culture and susceptibility information is available, it should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy. Empiric therapy may be initiated while awaiting test results.

2 DOSAGE AND ADMINISTRATION

2.1 Administration Duration

Daptomycin for Injection should be administered intravenously either by injection over a two (2) minute period or by infusion over a thirty (30) minute period.

2.2 Complicated Skin and Skin Structure Infections

Daptomycin for Injection 4 mg/kg should be administered intravenously in 0.9% sodium chloride injection once every 24 hours for 7 to 14 days.

2.3 *Staphylococcus aureus* Bloodstream Infections (Bacteremia), Including Those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates

Daptomycin for Injection 6 mg/kg should be administered intravenously in 0.9% sodium chloride Injection once every 24 hours for 2 to 6 weeks. There are limited safety data for the use of Daptomycin for Injection for more than 28 days of therapy. In the Phase 3 trials, there were a total of 14 patients who were treated with Daptomycin for Injection for more than 28 days.

2.4 Patients with Renal Impairment

The recommended dosage regimen for patients with creatinine clearance (CL_{CR}) less than 30 mL/min, including patients on hemodialysis or continuous ambulatory peritoneal dialysis (CAPD), is 4 mg/kg (cSSSI) or 6 mg/kg (*S. aureus* bloodstream infections) once every 48 hours (Table 1). When possible, Daptomycin for Injection should be administered following the completion of hemodialysis on hemodialysis days [see *Warnings and Precautions* (5.2, 5.8), *Use in Specific Populations* (8.8), and *Clinical Pharmacology* (12.3)].

Table 1: Recommended Dosage of Daptomycin for Injection in Adult Patients

| Creatinine Clearance (CL _{CR}) | Dosage Regimen | |
|---|------------------------------|---|
| | cSSSI | <i>S. aureus</i> Bloodstream Infections |
| ≥30 mL/min | 4 mg/kg once every 24 hours | 6 mg/kg once every 24 hours |
| <30 mL/min, including hemodialysis and CAPD | 4 mg/kg once every 48 hours* | 6 mg/kg once every 48 hours* |

* When possible, administer Daptomycin for Injection following the completion of hemodialysis on hemodialysis days.

2.5 Preparation of Daptomycin for Injection for Administration

Reconstitution of Daptomycin for Injection Vial

Daptomycin for Injection is supplied in single-dose vials, each containing 500 mg daptomycin as a sterile, lyophilized powder. The contents of a Daptomycin for Injection vial should be reconstituted, using aseptic technique, to 50 mL, as follows:

1. To minimize foaming, AVOID vigorous agitation or shaking of the vial during or after reconstitution.

2. Remove the polypropylene flip-off cap from the Daptomycin for Injection vial to expose the central portion of the rubber stopper.

3. Wipe the top of the rubber stopper with an alcohol swab or other antiseptic solution and allow to dry. After cleaning, do not touch the rubber stopper or allow it to touch any other surface.

4. Slowly transfer 10 mL of 0.9% sodium chloride injection through the center of the rubber stopper into the Daptomycin for Injection vial, pointing the transfer needle toward the wall of the vial. It is recommended that a beveled sterile transfer needle that is 21 gauge or smaller in diameter, or a needleless device is used, pointing the transfer needle toward the wall of the vial.

5. Ensure that all of the Daptomycin for Injection powder is wetted by gently rotating the vial.

6. Allow the wetted product to stand undisturbed for 10 minutes.

7. Gently rotate or swirl the vial contents for a few minutes, as needed, to obtain a completely reconstituted solution.

Administration Instructions

Parenteral drug products should be inspected visually for particulate matter prior to administration. Slowly remove reconstituted liquid (50 mg daptomycin/mL) from the vial using a beveled sterile needle that is 21 gauge or smaller in diameter. Administer as an intravenous injection or infusion as described below.

Intravenous Injection over a period of 2 minutes

For intravenous (IV) injection over a period of 2 minutes, administer the appropriate volume of the reconstituted Daptomycin for Injection (concentration of 50 mg/mL).

Intravenous Infusion over a period of 30 minutes

For IV infusion over a period of 30 minutes, the appropriate volume of the reconstituted Daptomycin for Injection (concentration of 50 mg/mL) should be further diluted, using aseptic technique, into a 50 mL IV infusion bag containing 0.9% sodium chloride injection.

No preservative or bacteriostatic agent is present in this product. Aseptic technique must be used in the preparation of final IV solution. Do not exceed the In-Use storage conditions of the reconstituted solution of Daptomycin for Injection described below. Discard unused portions of Daptomycin for Injection.

In-Use Storage Conditions for Daptomycin for Injection Once Reconstituted in Acceptable Intravenous Diluents

Stability studies have shown that the reconstituted solution is stable in the vial for 12 hours at room temperature and up to 48 hours if stored under refrigeration at 2 to 8°C (36 to 46°F).

The diluted solution is stable in the infusion bag for 12 hours at room temperature and 48 hours if stored under refrigeration. The combined storage time (reconstituted solution in vial and diluted solution in infusion bag) should not exceed 12 hours at room temperature or 48 hours under refrigeration.

2.6 Compatible Intravenous Solutions

Daptomycin for Injection is compatible with 0.9% sodium chloride injection and lactated Ringer's injection.

2.7 Incompatibilities

Daptomycin for Injection is not compatible with dextrose-containing diluents.

Daptomycin for Injection should not be used in conjunction with ReadyMED® elastomeric infusion pumps. Stability studies of Daptomycin for Injection solutions stored in ReadyMED® elastomeric infusion pumps identified an impurity (2-mercaptobenzothiazole) leaching from this pump system into the Daptomycin for Injection solution.

Because only limited data are available on the compatibility of Daptomycin for Injection with other IV substances, additives and other medications should not be added to Daptomycin for Injection single-dose vials or infusion bags, or infused simultaneously with Daptomycin for Injection through the same IV line. If the same IV line is used for sequential infusion of different drugs, the line should be flushed with a compatible intravenous solution before and after infusion with Daptomycin for Injection.

3 DOSAGE FORMS AND STRENGTHS

500 mg daptomycin as a sterile, pale yellow to light brown lyophilized powder for reconstitution in a single-dose vial.

4 CONTRAINDICATIONS

Daptomycin for Injection is contraindicated in patients with known hypersensitivity to daptomycin.

concomitant therapy with an HMG-CoA reductase inhibitor or in whom elevations in CPK occur during treatment with Daptomycin for Injection.

In patients with renal impairment, both renal function and CPK should be monitored more frequently than once weekly [see *Use in Specific Populations* (8.8) and *Clinical Pharmacology* (12.3)].

In Phase 1 studies and Phase 2 clinical trials, CPK elevations appeared to be more frequent when Daptomycin for Injection was dosed more than once daily. Therefore, Daptomycin for Injection should not be dosed more frequently than once a day.

Daptomycin for Injection should be discontinued in patients with unexplained signs and symptoms of myopathy in conjunction with CPK elevations to levels >1,000 U/L (~5x ULN), and in patients without reported symptoms who have marked elevations in CPK, with levels >2,000 U/L (~10x ULN). In addition, consideration should be given to suspending agents associated with rhabdomyolysis, such as HMG-CoA reductase inhibitors, temporarily in patients receiving Daptomycin for Injection [see *Drug Interactions* (7.1)].

5.3 Eosinophilic Pneumonia

Eosinophilic pneumonia has been reported in patients receiving Daptomycin for Injection [see *Adverse Reactions* (6.2)]. In reported cases associated with Daptomycin for Injection, patients developed fever, dyspnea with hypoxic respiratory insufficiency, and diffuse pulmonary infiltrates. In general, patients developed eosinophilic pneumonia 2 to 4 weeks after starting Daptomycin for Injection and improved when Daptomycin for Injection was discontinued and steroid therapy was initiated. Recurrence of eosinophilic pneumonia upon re-exposure has been reported. Patients who develop these signs and symptoms while receiving Daptomycin for Injection should undergo prompt medical evaluation and Daptomycin for Injection should be discontinued immediately. Treatment with systemic steroids is recommended.

5.4 Peripheral Neuropathy

Cases of peripheral neuropathy have been reported during the Daptomycin for Injection postmarketing experience [see *Adverse Reactions* (6.2)]. Therefore, physicians should be alert to signs and symptoms of peripheral neuropathy in patients receiving Daptomycin for Injection.

5.5 Potential Nervous System and/or Muscular System Effects in Pediatric Patients Younger than 12 Months

Avoid use of Daptomycin for Injection in pediatric patients younger than 12 months due to the risk of potential effects on neuronal, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs with intravenous daptomycin [see *Nonclinical Toxicology* (13.2)].

5.6 Clostridium difficile-Associated Diarrhea

Clostridium difficile-associated diarrhea (CDAD) has been reported with the use of nearly all systemic antibacterial agents, including Daptomycin for Injection, and may range in severity from mild diarrhea to fatal colitis [see *Adverse Reactions* (6.2)]. Treatment with antibacterial agents alters the normal flora of the colon, leading to overgrowth of *C. difficile*.

C. difficile produces toxins A and B, which contribute to the development of CDAD. Hypertoxin-producing strains of *C. difficile* cause increased morbidity and mortality, since these infections can be refractory to antibiotic therapy. CDAD must be considered in all patients who present with diarrhea following antibacterial use. Careful medical history is necessary because CDAD has been reported to occur more than 2 months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibacterial use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

5.7 Persisting or Relapsing *S. aureus* Bacteremia/Endocarditis

Patients with persisting or relapsing *S. aureus* bacteremia/endocarditis or poor clinical response should have repeat blood cultures. If a blood culture is positive for *S. aureus*, minimum inhibitory concentration (MIC) susceptibility testing of the isolate should be performed using a standardized procedure, and diagnostic evaluation of the patient should be performed to rule out sequestered foci of infection. Appropriate surgical intervention (e.g., debridement, removal of prosthetic devices, valve replacement surgery) and/or consideration of a change in antibacterial regimen may be required.

Failure of treatment due to persisting or relapsing *S. aureus* bacteremia/endocarditis may be due to reduced daptomycin susceptibility (as evidenced by increasing MIC of the *S. aureus* isolate) [see *Clinical Trials* (14.2)].

5.8 Decreased Efficacy in Patients with Moderate Baseline Renal Impairment

Limited data are available from the two Phase 3 complicated skin and skin structure infection (cSSSI) trials regarding clinical efficacy of Daptomycin for Injection treatment in patients with creatinine clearance (CL_{CR}) <50 mL/min; only 31/534 (6%) patients treated with Daptomycin for Injection in the Intent-to-treat (ITT) population had a baseline CL_{CR} <50 mL/min. Table 2 shows the number of patients by renal function and treatment group who were clinical successes in the Phase 3 cSSSI trials.

Table 2: Clinical Success Rates by Renal Function and Treatment Group in Phase 3 cSSSI Trials (Population: ITT)

| CL _{CR} | Success Rate n/N (%) | |
|------------------|--------------------------------------|-------------|
| | Daptomycin for Injection 4mg/kg q24h | Comparator |
| 50–70 mL/min | 25/38 (66%) | 30/48 (63%) |
| 30–<50 mL/min | 7/15 (47%) | 20/35 (57%) |

In a subgroup analysis of the ITT population in the Phase 3 *S. aureus* bacteremia/endocarditis trial, clinical success rates, as determined by a treatment-blinded Adjudication Committee [see *Clinical Trials* (14.2)], in the Daptomycin for Injection-treated patients were lower in patients with baseline CL_{CR} <50 mL/min (see Table 3). A decrease of the magnitude shown in Table 3 was not observed in comparator-treated patients.

Table 3: Adjudication Committee Clinical Success Rates at Test of Cure by Baseline Creatinine Clearance and Treatment Subgroup in the *S. aureus* Bacteremia/Endocarditis Trial (Population: ITT)

| Baseline CL _{CR} | Success Rate n/N (%) | |
|---------------------------|---------------------------------------|-------------|
| | Daptomycin for Injection 6 mg/kg q24h | Comparator |
| >80 mL/min | 30/50 (60%) | 19/42 (45%) |
| 50–80 mL/min | 12/26 (46%) | 13/31 (42%) |
| 30–50 mL/min | 2/14 (14%) | 0/1 (0%) |

Consider these data when selecting antibacterial therapy for use in patients with baseline moderate to severe renal impairment.

5.9 Drug-Laboratory Test Interactions

Clinically relevant plasma concentrations of daptomycin have been observed to cause a significant concentration-dependent decrease in the International Normalized Ratio (INR) when certain recombinant thromboplastin reagents are utilized for the assay [see *Drug Interactions* (7.2)].

5.10 Non-Susceptible Microorganisms

The use of antibacterials may promote the overgrowth of non-susceptible microorganisms. If super-infection occurs during therapy, appropriate measures should be taken.

Prescribing Daptomycin for Injection in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

6 ADVERSE REACTIONS

The following adverse reactions are described, or described in greater detail, in other sections:

- Anaphylaxis/hypersensitivity reactions [see *Warnings and Precautions* (5.1)]

- Myopathy and rhabdomyolysis [see *Warnings and Precautions* (5.2)]

- Eosinophilic pneumonia [see *Warnings and Precautions* (5.3)]

- Peripheral neuropathy [see *Warnings and Precautions* (5.4)]

- Increased International Normalized Ratio (INR)/prolonged prothrombin time [see *Warnings and Precautions* (5.9) and *Drug Interactions* (7.2)]

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice.

6.1 Clinical Trials Experience

Clinical trials enrolled 1,864 patients treated with Daptomycin for Injection and 1,416 treated with comparator.

Complicated Skin and Skin Structure Infection Trials

In Phase 3 complicated skin and skin structure infection (cSSSI) trials, Daptomycin for Injection was discontinued in 15/534 (2.8%) patients due to an adverse reaction, while comparator was discontinued in 17/558 (3.0%) patients.

The rates of the most common adverse reactions, organized by body system, observed in cSSSI (4 mg/kg Daptomycin for Injection) patients are displayed in Table 4.

Table 4: Incidence of Adverse Reactions that Occurred in 32% of Patients in the Daptomycin for Injection Treatment Group and 3 the Comparator Treatment Group in Phase 3 cSSSI Trials

| Adverse Reaction | Patients (%) | |
|------------------------------------|--|---------------------|
| | Daptomycin for Injection 4 mg/kg (N=534) | Comparator* (N=558) |
| Gastrointestinal disorders | | |
| Diarrhea | 5.2 | 4.3 |
| Nervous system disorders | | |
| Headache | 5.4 | 5.4 |
| Dizziness | 2.2 | 2.0 |
| Skin/subcutaneous disorders | | |
| Rash | 4.3 | 3.8 |
| Diagnostic investigations | | |
| Abnormal liver function tests | 3.0 | 1.8 |
| Elevated CPK | 2.8 | 1.8 |
| Infections | | |
| Urinary tract infections | 2.4 | 0.5 |
| Vascular disorders | | |
| Hypotension | 2.4 | 1.4 |
| Respiratory disorders | | |
| Dyspnea | 2.1 | 1.6 |

* Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin; 4 to 12 g/day IV in divided doses).

Drug-related adverse reactions (possibly or probably drug-related) that occurred in <1% of patients receiving Daptomycin for Injection in the cSSSI trials are as follows:

Body as a Whole: fatigue, weakness, rigors, flushing, hypersensitivity

Blood/Lymphatic System: leukocytosis, thrombocytopenia, thrombocytosis, eosinophilia, increased International Normalized Ratio (INR)

Cardiovascular System: supraventricular arrhythmia

Dermatologic System: eczema

Digestive System: abdominal distention, stomatitis, jaundice, increased serum lactate dehydrogenase

Metabolic/Nutritional System: hypomagnesemia, increased serum bicarbonate, electrolyte disturbance

Musculoskeletal System: myalgia, muscle cramps, muscle weakness, arthralgia

Nervous System: vertigo, mental status change, paresthesia

Special Senses: taste disturbance, eye irritation

***S. aureus* Bacteremia/Endocarditis Trial**

In the *S. aureus* bacteremia/endocarditis trial, Daptomycin for Injection was discontinued in 20/120 (16.7%) patients due to an adverse reaction, while comparator was discontinued in 21/116 (18.1%) patients.

Severe Gram-negative infections (including bloodstream infections) were reported in 10/120 (8.3%) Daptomycin for Injection-treated patients and 0/116 comparator-treated patients. Comparator-treated patients received dual therapy that included initial gentamicin for 4 days. Infections were reported during treatment and during early and late follow-up. Gram-negative infections included cholangitis, alcoholic pancreatitis, sternal osteomyelitis/mediastinitis, bowel infarction, recurrent Crohn's disease, recurrent line sepsis, and recurrent urethritis caused by a number of different Gram-negative bacteria.

The rates of the most common adverse reactions, organized by System Organ Class (SOC), observed in *S. aureus* bacteremia/endocarditis (6 mg/kg Daptomycin for Injection) patients are displayed in Table 5.

Table 5: Incidence of Adverse Reactions that Occurred in 25% of Patients in the Daptomycin for Injection Treatment Group and 2 the Comparator Treatment Group in the *S. aureus* Bacteremia/Endocarditis Trial

| Adverse Reaction* | Patients n (%) | |
|---|--|---------------------|
| | Daptomycin for Injection 6 mg/kg (N=120) | Comparator† (N=116) |
| Infections and infestations | | |
| Sepsis NOS | 6 (5%) | 3 (3%) |
| Bacteremia | 6 (5%) | 0 (0%) |
| Gastrointestinal disorders | | |
| Abdominal pain NOS | 7 (6%) | 4 (3%) |
| General disorders and administration site conditions | | |
| Chest pain | 8 (7%) | 7 (6%) |
| Edema NOS | 8 (7%) | 5 (4%) |
| Respiratory, thoracic and mediastinal disorders | | |
| Pharyngolaryngeal pain | 10 (8%) | 2 (2%) |
| Skin and subcutaneous tissue disorders | | |
| Pruritus | 7 (6%) | 8 (6%) |
| Sweating increased | 6 (5%) | 0 (0%) |
| Psychiatric disorders | | |
| Insomnia | 11 (9%) | 8 (7%) |
| Investigations | | |
| Blood creatine phosphokinase increased | 8 (7%) | 1 (1%) |
| Vascular disorders | | |
| Hypertension NOS | 7 (6%) | 3 (3%) |

* NOS, not otherwise specified.

† Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin; 2 g IV q6h), each with initial low-dose gentamicin.

The following reactions, not included above, were reported as possibly or probably drug-related in the Daptomycin for Injection-treated group:

Blood and Lymphatic System Disorders: eosinophilia, lymphadenopathy, thrombocytopenia, thrombocytopenia

Cardiac Disorders: atrial fibrillation, atrial flutter, cardiac arrest

Ear and Labyrinth Disorders: tinnitus

