



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.

DAPTOMYCIN FOR INJECTION, for Intravenous Use

Initial U.S. Approval: 2003

RECENT MAJOR CHANGES

Warnings and Precautions, Development of Drug-Resistant Bacteria (5.12)

INDICATIONS AND USAGE

Daptomycin for injection is a lipopeptide antibacterial indicated for the treatment of:

- Complicated skin and skin structure infections (cSSSI) in adult and pediatric patients (1 to 17 years of age) (1, 1) and,
• Staphylococcus aureus bloodstream infections (bacteremia), in adult patients including those with right-sided infective endocarditis (1, 2)
• Staphylococcus aureus bloodstream infections (bacteremia) in pediatric patients (1 to 17 years of age) (1, 3)

Limitations of Use:
• Daptomycin for injection is not indicated for the treatment of pneumonia. (1, 4)
• Daptomycin for injection is not indicated for the treatment of left-sided infective endocarditis due to S. aureus. (1, 4)
• Daptomycin for injection is not recommended in pediatric patients younger than one year of age due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs. (1, 4)

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 or prevent infections that are proven or strongly suspected to be caused by bacteria. (1, 5)

ADULT PATIENTS
• Administer to adult patients intravenously in 0.9% sodium chloride, either by injection over a 2-minute period or by infusion over a 30-minute period. (2.1, 2.2)
• Recommended dosage regimen for adult patients (2.2, 2.4, 2.7):

Table with 3 columns: Creatinine Clearance (CLcr), Dosage Regimen, S. aureus Bacteremia. Rows for cSSSI For 7 to 14 days and S. aureus Bacteremia For 2 to 6 weeks.

• *Administer following hemodialysis on hemodialysis days.

Pediatric Patients
• Unlike in adults, do NOT administer by injection over a two (2) minute period to pediatric patients. (2.1, 2.7)
• Administer to pediatric patients intravenously in 0.9% sodium chloride, by infusion over a 30- or 60-minute period, based on age. (2.1, 2.7)
• Recommended dosage regimen for pediatric patients (11 to 17 years of age) with cSSSI, based on age (2.3):

Table with 4 columns: Age group, Dosage*, Duration of therapy. Rows for 12 to 17 years, 7 to 11 years, 2 to 6 years, 1 to 6 years, 1 to less than 2 years.

*Recommended dosage is for pediatric patients (1 to 17 years of age) with normal renal function. Dosage adjustment for pediatric patients with renal impairment has not been established.

• Recommended dosage regimen for pediatric patients (1 to 17 years of age) with S. aureus bacteremia, based on age (2.5):

FULL PRESCRIBING INFORMATION: CONTENTS

1 INDICATIONS AND USAGE

- 1.1 Complicated Skin and Skin Structure Infections (cSSSI)
1.2 Staphylococcus aureus Bloodstream Infections (Bacteremia) in Adult Patients, Including Those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates
1.3 Staphylococcus aureus Bloodstream Infections (Bacteremia) in Pediatric Patients (1 to 17 Years of Age)
1.4 Limitations of Use
1.5 Usage

2 DOSAGE AND ADMINISTRATION

- 2.1 Important Administration Duration Instructions
2.2 Dosage in Adults for cSSSI
2.3 Dosage in Pediatric Patients (1 to 17 Years of Age) for cSSSI
2.4 Dosage in Adult Patients with Staphylococcus aureus Bloodstream Infections (Bacteremia), Including Those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates
2.5 Dosage in Pediatric Patients (1 to 17 Years of Age) with Staphylococcus aureus Bloodstream Infections (Bacteremia)
2.6 Dosage in Patients with Renal Impairment
2.7 Preparation and Administration of Daptomycin for Injection
2.8 Compatible Intravenous Solution for Reconstitution and Dilution
2.9 Incompatibilities

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

- 5.1 Anaphylaxis/Hypersensitivity Reactions
5.2 Myopathy and Rhabdomyolysis
5.3 Eosinophilic Pneumonia
5.4 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)
5.5 Tubulointerstitial Nephritis (TIN)
5.6 Peripheral Neuropathy
5.7 Potential Nervous System and/or Muscular System Effects in Pediatric Patients Younger than 12 Months
5.8 Clostridioides difficile-Associated Diarrhea
5.9 Persisting or Relapsing S. aureus Bacteremia/Endocarditis
5.10 Decreased Efficacy in Patients with Moderate Baseline Renal Impairment
5.11 Increased International Normalized Ratio (INR)/Prolonged Prothrombin Time

6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
6.2 Post-Marketing Experience

7 DRUG INTERACTIONS

- 7.1 HMG-CoA Reductase Inhibitors
7.2 Drug Laboratory Test Interactions

8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
8.2 Lactation
8.4 Pediatric Use
8.5 Geriatric Use
8.8 Patients with Renal Impairment

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics
12.4 Microbiology

13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
13.2 Animal Toxicology and Pharmacology

14 CLINICAL STUDIES

- 14.1 Complicated Skin and Skin Structure Infections
14.2 S. aureus Bacteremia/Endocarditis

15 REFERENCES

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

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

Table with 3 columns: Age group, Dosage*, Duration of therapy. Rows for 12 to 17 years, 7 to 11 years, 1 to 6 years.

*Recommended dosage is for pediatric patients (1 to 17 years of age) with normal renal function. Dosage adjustment for pediatric patients with renal impairment has not been established.

- There are two formulations of daptomycin that have differences concerning storage and reconstitution. Carefully follow the reconstitution and storage procedures in labeling. (2, 7)
• Do not use in conjunction with ReadyMED elastomeric infusion pumps in adult and pediatric patients. (2, 9)

DOSAGE FORMS AND STRENGTHS

For Injection: 500 mg lyophilized powder for reconstitution in a single-dose vial (3)

CONTRAINDICATIONS

WARNINGS AND PRECAUTIONS

- Anaphylaxis/hypersensitivity reactions (including life-threatening): Discontinue daptomycin for injection and treat 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)
• DRESS: Discontinue daptomycin for injection and institute appropriate treatment. (5.4)
• Tubulointerstitial Nephritis (TIN): Discontinue daptomycin for injection and institute appropriate treatment. (5.5)
• Peripheral neuropathy: Monitor for neuropathy and consider discontinuation. (5.6)
• 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. (5.7)
• Clostridioides difficile-associated diarrhea: Evaluate patients if diarrhea occurs. (5.8)
• Persisting or relapsing S. aureus bacteremia/endocarditis: Perform susceptibility testing and rule out sequestered foci of infection. (5.9)
• Decreased efficacy was observed in adult patients with moderate baseline renal impairment. (5.10)

ADVERSE REACTIONS

• Adult cSSSI Patients: The most common adverse reactions that occurred in ≥ 2% of adult cSSSI patients receiving daptomycin for injection 4 mg/kg were diarrhea, headache, dizziness, rash, abnormal liver function tests, elevated creatine phosphokinase (CPK), urinary tract infections, hypotension, and dyspnea. (6.1)

• Pediatric cSSSI Patients: The most common adverse reactions that occurred in ≥ 2% of pediatric patients receiving daptomycin for injection were diarrhea, vomiting, abdominal pain, pruritus, pyria, elevated CPK, and headache. (6.1)

• Adult S. aureus bacteremia/endocarditis Patients: The most common adverse reactions that occurred in ≥ 5% of S. aureus bacteremia/endocarditis patients receiving daptomycin for injection 6 mg/kg were sepsis, bacteremia, abdominal pain, chest pain, edema, pharyngolaryngeal pain, pruritus, increased sweating, insomnia, elevated CPK, and hypotension. (6.1)

• Pediatric S. aureus bacteremia Patients: The most common adverse reactions that occurred in ≥ 5% of pediatric patients receiving daptomycin for injection were vomiting and elevated CPK. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Aspiro Pharma Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

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Development of Drug-Resistant Bacteria

ADVERSE REACTIONS
6.1 Clinical Trials Experience
6.2 Post-Marketing Experience

DRUG INTERACTIONS

- 7.1 HMG-CoA Reductase Inhibitors
7.2 Drug Laboratory Test Interactions

USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
8.2 Lactation
8.4 Pediatric Use
8.5 Geriatric Use
8.8 Patients with Renal Impairment

OVERDOSAGE

DESCRIPTION

CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
12.2 Pharmacodynamics
12.3 Pharmacokinetics
12.4 Microbiology

NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
13.2 Animal Toxicology and Pharmacology

CLINICAL STUDIES

- 14.1 Complicated Skin and Skin Structure Infections
14.2 S. aureus Bacteremia/Endocarditis

REFERENCES

HOW SUPPLIED/STORAGE AND HANDLING

PATIENT COUNSELING INFORMATION

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over the 30-minute period.

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 and diluted solutions 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°C 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.

Compatible Intravenous Solution for Reconstitution and Dilution

Daptomycin for injection is compatible with 0.9% sodium chloride injection for reconstitution. Reconstituted Daptomycin for injection can only be diluted with 0.9% sodium chloride injection.

Incompatibilities

Daptomycin for injection is not compatible with certain compatible 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 did not include ampicillin (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.

DOSAGE FORMS AND STRENGTHS

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

CONTRAINDICATIONS

• Daptomycin is contraindicated in patients with known hypersensitivity to daptomycin. (see Warnings and Precautions (5.1)).

WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis/Hypersensitivity Reactions
Anaphylaxis/hypersensitivity reactions have been reported with the use of antibacterial agents, including daptomycin, and may be life-threatening. If an allergic reaction to daptomycin occurs, discontinue the drug and institute appropriate therapy. (see Adverse Reactions (6.2)).

5.2 Myopathy and Rhabdomyolysis
Myopathy, defined as muscle aching or muscle weakness in conjunction with increases in creatine phosphokinase (CPK) values to greater than 10 times the upper limit of normal (ULN), has been reported with the use of daptomycin. Rhabdomyolysis, with or without acute renal failure, has been reported. (see Adverse Reactions (6.2)).

Patients receiving daptomycin should be monitored for the development of muscle pain or weakness, particularly of the distal extremities. In patients who receive daptomycin, CPK levels should be monitored weekly, and more frequently in patients who received recent prior or concomitant therapy with an HMG-CoA reductase inhibitor or in whom elevations in CPK occur during treatment with daptomycin.

In adult 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 in adults, CPK elevations appeared to be more frequent when daptomycin was dosed more than once daily. Therefore, daptomycin should not be dosed more frequently than once a day.

Daptomycin should be discontinued in patients with unexplained signs and symptoms of myopathy in conjunction with CPK elevations to > 1000 U/L (= 5 × ULN), and in patients without reported symptoms who have marked elevations in CPK, with levels > 2000 U/L (= 10 × ULN).

In addition, consideration should be given to suspending agents associated with rhabdomyolysis, such as HMG-CoA reductase inhibitors, temporarily in patients receiving daptomycin. (see Drug Interactions (7.1)).

5.3 Eosinophilic Pneumonia
Eosinophilic pneumonia has been reported in patients receiving daptomycin. (see Adverse Reactions (6.2)). In reported cases associated with daptomycin, patients developed fever, dyspnea with hypoxic respiratory insufficiency, and diffuse pulmonary infiltrates or organizing pneumonia. In general, patients developed eosinophilic pneumonia 2 to 4 weeks after starting daptomycin and improved when daptomycin 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 should undergo prompt medical evaluation, and daptomycin should be discontinued immediately. Treatment with systemic steroids is recommended.

5.4 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)
DRESS has been reported with the use of daptomycin. (see Adverse Reactions (6.2)). Patients who develop skin rash, fever, peripheral eosinophilia, and systemic organ (for example, hepatic, renal, pulmonary) impairment while receiving daptomycin should undergo medical evaluation. If DRESS is suspected, discontinue daptomycin promptly and institute appropriate treatment.

5.5 Tubulointerstitial Nephritis (TIN)
TIN has been reported in post-marketing experience with daptomycin. (see Adverse Reactions (6.2)). Patients who develop new or worsening renal impairment while receiving daptomycin should undergo medical evaluation. If TIN is suspected, discontinue daptomycin promptly and institute appropriate treatment.

5.6 Peripheral Neuropathy
Cases of peripheral neuropathy have been reported during the daptomycin postmarketing experience. (see Adverse Reactions (6.2)). Therefore, physicians should be alert to signs and symptoms of peripheral neuropathy in patients receiving daptomycin. Monitor for neurologic symptoms and consider discontinuation of daptomycin if appropriate.

5.7 Potential Nervous System and/or Muscular System Effects in Pediatric Patients Younger than 12 Months
Avoid use of daptomycin in pediatric patients younger than 12 months due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs with intravenous daptomycin. (see Nonclinical Toxicology (13.2)).

5.8 Clostridioides difficile-Associated Diarrhea
Clostridioides difficile-associated diarrhea (CDAD) has been reported with the use of newly all systemic antibacterial agents, including daptomycin, 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. Hypertonic producing strains of C. difficile cause increased morbidity and mortality, since these infections can be refractory to antimicrobial therapy and may require colectomy. 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 antibiotic use not directed against C. difficile may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibiologic treatment of C. difficile, and surgical evaluation should be instituted as clinically indicated.

5.9 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 antibiologic regimen may be required.

Failure of treatment due to persisting or relapsing S. aureus bacteremia/endocarditis may be due to reduced daptomycin susceptibility (as indicated by an increasing MIC of the S. aureus isolate) (see Clinical Studies (14.2)).

5.10 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 treatment in adult patients with creatinine clearance (CLcr) < 50 mL/min; only 31/534 (6%) patients treated with daptomycin in the intent-to-treat (ITT) population had a baseline CLcr < 50 mL/min. Table 4 shows the number of adult patients by renal function and baseline CLcr in the two Phase 3 cSSSI trials.

Table 4: Clinical Success Rates by Renal Function and Treatment Group in Phase 3 cSSSI Trials in Adult Patients (Population: ITT)

Table with 3 columns: CLcr, Success Rate n/N (%). Rows for 50-70 mL/min, 30- < 50 mL/min.

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-blind adjudication committee (see Clinical Studies (14.2)), in the daptomycin-treated adult patients were lower in patients with baseline CLcr < 50 mL/min (see Table 5). A decrease of the magnitude shown in Table 5 was not observed in comparator-treated patients.

Table 5: Adjudication Committee Clinical Success Rates at Test of Cure by Baseline Creatinine Clearance and Treatment Subgroup in the S. aureus Bacteremia/Endocarditis Trial in Adult Patients (Population: ITT)

Table with 4 columns: Baseline CLcr, Daptomycin 6 mg/kg every 24h, Comparator, Success Rate n/N (%). Rows for > 80 mL/min, 50-80 mL/min, 30- < 50 mL/min.

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

Increased International Normalized Ratio (INR)/Prolonged Prothrombin Time

Clinically relevant plasma concentrations of daptomycin have been observed to cause a significant concentration-dependent false prolongation of prothrombin time (PT) and elevation of International Normalized Ratio (INR) when certain recombinant thromboplastin reagents are utilized for the test. (see Drug Interactions (7.2)).

Development of Drug-Resistant Bacteria

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

ADVERSE REACTIONS

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

- 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))
• Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS). (see Warnings and Precautions (5.4))
• Tubulointerstitial Nephritis. (see Warnings and Precautions (5.5))
• Peripheral Neuropathy. (see Warnings and Precautions (5.6))
• Increased International Normalized Ratio (INR)/Prolonged Prothrombin Time. (see Warnings and Precautions (5.11) and Drug Interactions (7.2))

CLINICAL TRIALS EXPERIENCE IN ADULT PATIENTS

Clinical trials in 2049 adult patients treated in that comprise and 1,416 treated with comparator.

Complicated Skin and Skin Structure Infection Trials
In Phase 3 complicated skin and skin structure infection (cSSSI) trials in adult patients, daptomycin 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 adult patients with cSSSI receiving 4 mg/kg daptomycin are displayed in Table 6.

Table 6: Incidence of Adverse Reactions that Occurred in ≥ 2% of Adult Patients in the daptomycin Treatment Group and ≥ the Comparator Treatment Group in Phase 3 cSSSI Trials

Table with 3 columns: Adverse Reaction, Daptomycin 4 mg/kg (N=534), Comparator* (N=558). Rows for Gastrointestinal disorders, Nervous system disorders, Headache, Dizziness, Skin/subcutaneous disorders, Rash, Diagnostic investigations, Abnormal liver function tests, Elevated CPK, Infections, Urinary tract infections, Vascular disorders, Hypertension, Respiratory disorders, Dyspnea.

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

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

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

Blood/Lymphatic System: leukocytosis, thrombocytosis, 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 creatinine, 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 Adults
In the S. aureus bacteremia/endocarditis trial involving adult patients, daptomycin was discontinued in 20/120 (16.7%) patients due to an adverse reaction, while comparator was discontinued in 2/116 (1.8%) patients.

Serious Gram-negative infections (including bloodstream infections) were reported in 10/120 (8.3%) daptomycin-treated patients and 0/115 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/osteodactylitis, bowel infarction, recurrent Crohn's disease, recurrent line sepsis, and recurrent osteomyelitis 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 adult patients with S. aureus bacteremia/endocarditis receiving 6 mg/kg daptomycin are displayed in Table 7.

Table 7: Incidence of Adverse Reactions that Occurred in ≥ 5% of Adult Patients in the daptomycin Treatment Group and ≥ the Comparator Treatment Group in the S. aureus Bacteremia/Endocarditis Trial

Table with 3 columns: Adverse Reaction*, Daptomycin 6 mg/kg (N=120), Comparator* (N=116). Rows for Infections and infestations, Sepsis NOS, Bacteremia, Gastrointestinal disorders, Abdominal pain NOS, General disorders and administration site conditions, Chest pain, Edema NOS, Respiratory, thoracic and mediastinal disorders, Pharyngolaryngeal pain, Skin and subcutaneous tissue disorders, Pruritus, Sweating increased, Psychiatric disorders, Insomnia, Investigations, Blood creatinine, alkaline phosphatase increased, Vascular disorders, Hypertension NOS.

*NOS, not otherwise specified.
*Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or fluclaxacillin; 2 g IV q4h), each with initial low-dose gentamicin.

The following reactions, not included above, were reported as possibly or probably drug-related in the daptomycin-treated group: Blood and Lymphatic System Disorders: eosinophilia, lymphadenopathy, thrombocytopenia

Cardiac Disorders: atrial fibrillation, atrial flutter, cardiac arrest

Ear and Labyrinth Disorders: tinnitus

Eye Disorders: vision blurred

Gastrointestinal Disorders: dry mouth, epigastric discomfort, gingival pain, hypostomia, oral candidiasis

Infections and Infestations: candidal infection NOS, vaginal candidiasis, fungal, urinary tract infection fungal

Investigations: blood phosphorus increased, blood alkaline phosphatase increased, INR increased, liver function test abnormal, alanine aminotransferase increased, aspartate aminotransferase increased, prothrombin time prolonged

Metabolism and Nutrition Disorders: appetite decreased NOS

Musculoskeletal and Connective Tissue Disorders: myalgia, Nervous System Disorders: dyskinesia, paresthesia

Psychiatric Disorders: hallucination NOS

Renal and Urinary Disorders: proteinuria, renal impairment NOS

Skin and Subcutaneous Tissue Disorders: pruritus generalized, rash vesicular

Other Trials in Adults
In Phase 3 trials of community-acquired pneumonia (CAP) in adult patients, the death rate and rates of serious cardiovascular adverse events were higher in daptomycin-treated patients than in comparator-treated patients. These differences were due to lack of therapeutic effectiveness of daptomycin in the treatment of CAP in patients experiencing these adverse events (see Indications and Usage (1.4)).

