HIGHLIGHTS OF PRESCRIBING INFOR These highlights do not include all th INJECTION safely and effectively. See full prescribing information for I DAPTOMYCIN for injection, for intrav Initial U.S. Approval: 2003	he information needed DAPTOMYCIN FOR INJEC renous use	CTION.
RE Dosage and Administration(2) 2/2022 Warnings and Precautions, Development of	of Drug-Resistant Bacteria	(5.12) 10/2021
ML Daptomycin for injection is a lipopeptide a Complicated skin and skin structure infi age) (1.1) and, Staphylococcus aureus bloodstream in right-sided infective endocarditis (1.2) Staphylococcus aureus bloodstream in (1.3)	ntibacterial indicated for th ections (cSSSI) in adult and fections (bacteremia), in a	e treatment of: d pediatric patients (1 to 17 years of dult patients including those with
Limitations of Use: Daptomycin for injection is not indicate Daptomycin for injection is not indicate aureus. (1.4) Daptomycin for injection is not recomm to the risk of potential effects on music and/or central) observed in neonatal de	d for the treatment of left- nended in pediatric patient ular, neuromuscular, and/o	sided infective endocarditis due to s s younger than one year of age due
To reduce the development of drug-resista injection and other antibacterial drugs, daj infections that are proven or strongly susp	ptomycin for injection shou bected to be caused by bac	ld be used to treat or prevent teria. (1.5)
Adult Patients • Administer to adult patients intraver minute period or by infusion over a 30- • Recommended dosage regimen for adu	nously in 0.9% sodium chlor minute period. (2.1, 2.7)	
Creatinine Clearance (CLCR)	cSSSI For 7 to 14 days	<u>S. aureus Bacteremia</u> 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*	6 mg/kg once every 48 hours*
* Administered following hemodialysis on P Pediatric Patients • Unlike in adults, do NOT administ patients. (2.1, 2, 7)		wo (2) minute period to pediat

Recommended dosage regimen for pediatric patients (1 to 17 years of age) with cSSSI, based on age (2.3);

Age group	Dosage*	Duration of therapy		
12 to 17 years	5 mg/kg once every 24 hours infused over 30 minutes			
7 to 11 years	7 mg/kg once every 24 hours infused over 30 minutes	Up to 14 days		
2 to 6 years	9 mg/kg once every 24 hours infused over 60 minutes	op to 14 days		
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes			
* Recommended dosage is for pediatric patients (1 to 17 years of age) with normal renal function. Dosage				
adjustment for pediatr	ic 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):

Age group	Dosage*	Duration of therapy
12 to 17 years	7 mg/kg once every 24 hours infused over 30 minutes	
7 to 11 years	9 mg/kg once every 24 hours infused over 30 minutes	Up to 42 days
1 to 6 years	12 mg/kg once every 24 hours infused over 60 minutes	
*Recommende	d dosage is for pediatric patients (1 to 17 years of age) with	normal renal function. Dosage
adjustment for	pediatric patients with repail impairment has not been estab	lished.

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 (

- ter hjection: 500 mg lyophilized powler for reconstitution in a single-dose vial (3)
 CONTRANCICATIONS
 CONTRANCICATIONS
 WARNINGS AND PRECAUTIONS
 Anaphylaxis/hypersensibility to daptomycin (4)
 Mannings And P PRECAUTIONS
 Anaphylaxis/hypersensibility reactions (including life-threatening): Discontinue daptomycin for injection
 and treat signa/symptoms, G1
 Moypathy and rhabdomychysis: Monitor CPK levels and follow muscle pain or wakness: if elevated CPK
 Ebsinghile prevamination. Discontinue daptomycin for injection and consider treatment with systemic
 steroids, (5.3)
 Durg Reaction with Ebsinghila and Systemic Yumnary (PBESC) Interaction
- steroids; (5.3) Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue daptomycin for injection and institute appropriate treatment. (5.4) Tubulointerstitial Nephritis (TN): Discontinue daptomycin for injection and institute appropriate treatment. (5.5)

- treatment. (5.5) Peripheral recorparity: Months 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 daptomycric for injection in this age group. (5.7) C lostrificioides difficile-associated diarthea: Evaluate patients of diarthea occurs. (5.8) Perisiting or relapsing 5. aureus bactermailandocarditis: Perform susceptibility testing and rule out sequestered foi cl infliction. (5.9) Decreased effection. (5.5)
- ADVERSE ReacTONS AdviceSSIPatients: The most common adverse reactions that occurred in ≥ 2% of advit cSSSI patients receiving daptomycin 4 mg/kg were diarrhea, headache, dizzines, rash, abnormal liver function tests, devaled creating hoopshokinase CPAQuirary stract hitections hypotension, and Patients (cSSSIPatients): The most common adverse reactions that occurred in ≥ 2% of padiatric patients receiving daptomycin were diarrhea, wombing, abdominal pain, pruritus, pyrexia, elevated CPK, and headache. (6.1) Adult S, aurgues bactreminalendorarrhite. Patients
- and headache. (5.1) <u>Aduk 5, aureus bacteemialendocardita Patients</u>. The most common adverse reactions that occurred in s5% of 5, aureus bacteemialendocardita patients receiving daptomycin 6 mg/ag were sepso-insomma, elverated CPK and hypertension.(6.1). <u>Pediatric 5, aureus bacteemia Patients</u>: The most common adverse reactions that occurred in ≥5% of pediatric <u>statents</u> meeting and elverating and elverated CPK (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact NorthStar RxLLC at 1-800-206-7821 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. See 17 for PATIENT COUNSELING INFORMATION.

Revised: 3/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 Complicated Skin and Skin Structure Infections (cSSSI)

Daptomycin for injection is indicated for the treatment of adult and pediatric patients (1 to 17 years of age) with complicated skin and skin structure infections (cSSSI) Daptomycin for injection is indicated for the treatment of adult patients with complicated skin and skin structure infections (cSSSI) caused by susceptible isolates of the Skil allo skil su dovid skil su konstruktion (2004) sa se dovid sva se politik so vake so vitik se soveke so vitik so following Granu positive bacteria: Staphybococcus aureus (including methicilin-resistant isolates),Streptococcus progenes, Streptococcus aureus (including methicilin-resistant deutismilis, and Enterococcus approaches), Streptococcus aureus on hyl.

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

Daptomycin for injection is indicated for the treatment of adult patients with Staphylococcus aureus bloodstream infections (bacteremia), including adult patients 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)

Daptomycin for injection is indicated for the treatment of pediatric patients (1 to 17 years of age) with *Staphylococcus aureus* bloodstream infections (bacteremia).

1.4 Limitations of Use

Daptomycin for injection is not indicated for the treatment of pneumonia Daptomych for injection is not indicated for the treatment of pre-unionia. Daptomych for injection is not indicated for the treatment of feft-side infective endocarditis due to *S. aureus*. The clinical trial of daptomych for injection in adult patients with *S. aureus* bloodstream infections included limited data from patients with left-sided infective endocarditis, outcomes in these patients were poor [see Clinical Trials (14.2)]. Daptomych for injection has not been studied in patients with prosthetic valve endocarditis.

endocarditis

Daptomycin for injection is not recommended in pediatric patients younger than 1 year opposing the interpret of the protection of the commence of the product product protection of the prot

1.5 Usage

Appropriate specimens for microbiological examination should be obtained in order to isolate and identify the causative pathogens and to determine their susceptibility to daptomycin.

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 only to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria.

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 Important Administration Duration Instructions

Adults:

Administer the appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL) **to adult patients** intravenously either by injection over a two (2) minute period or by intravenous infusion over a thirty (30) minute period. [see Dosage and Administration (2.2,2.4, 2.7)].

Pediatric Patients (1 to 17 Years of Age)

- Unlike in adults, do NOT administer daptomycin by injection over a two (2) Wnike period to pediatric patients.
 Pediatric Patients 7 to 17 years of Age; Administer daptomycin for injection intravenously by infusion over a 30-minute period [see Dosage and Administration (2.3, 2.5, 2.7)].
- Pediatric Patients 1 to 6 years of Age; Administer daptomycin for injection intravenously by infusion over a 60-minute period [see Dosage and Administration (2.3, 2.5, 2.7)]

2.2 Dosage in Adults for cSSSI

Administer daptomycin for injection 4 mg/kg to adult patients intravenously in 0.9% sodium chloride injection once every 24 hours for 7 to 14 days.

2.3 Dosage in Pediatric Patients (1 to 17 Years of Age) for cSSSI

The recommended dosage regimens based on age for pediatric patients with cSSSI are shown in Table 1. Administer daptomycin intravenously in 0.9% sodium chloride injection once every 24 hours for up to 14 days.

Table 1: Recommended Dosage of Daptomycin for Injection in Pediatric Patients (1 to 17 Years of Age) with cSSSI, Based on Age

Age Range	Dosage Regimen*	Duration of therapy			
12 to 17 years	5 mg/kg once every 24 hours infused over 30 minutes				
7 to 11 years	7 mg/kg once every 24 hours infused over 30 minutes	Up to 14 days			
2 to 6 years	9 mg/kg once every 24 hours infused over 60 minutes	Op to 14 days			
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes				
*Recommended dosage regimen is for pediatric patients (1 to 17 years of age) with					
	tion. Dosage adjustment for pediatric patients with	renal impairment			
has not been esta	blished.				

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

Administer daptomycin for injection 6 mg/kg to adult patients 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 trial, there were a total of 14 adult patients who were treated with daptomycin for injection for more than 28 days.

2.5 Dosage in Pediatric Patients (1 to 17 Years of Age) with *Staphylococcus* aureus Bloodstream Infections (Bacteremia)

The recommended dosage regimens based on age for pediatric patients with *S. aureus* bloodstream infections (bacteremia) are shown in Table 2. Administer daptomycin for injection intravenously in 0.9% sodium chloride injection once every 24 hours for up to 42 days.

Table 2: Recommended Dosage of Daptomycin for Injection in Pediatric Patients (1 to 17 Years of Age) with *S. aureus* Bacteremia, Based on Age

Age group	Dosage*	Duration of therapy
12 to 17	7 modes and avery 24 hours infused over 20 minute	

7 mg/kg once every 24 hours infused over 30 minutes years 7 mg/kg once every 24 hours infused over 30 minutes Up to 42 days 7 to 11 years 9 mg/kg once every 24 hours infused over 30 minutes Up to 42 days

1 to 6 years 12 mg/kg once every 24 hours infused over 60 minutes

*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.

2.6 Dosage in Patients with Renal Impairment

2.0 Dosage in Patients with tenal impariment Adult Patients: No dosage adjustment is required in adult patients with creatinine clearance (CLCR) greater than or equal to 30 mL/min. The recommended dosage regimen for daptomycin for injection in adult patients with CLCR less than 30 mL/min, including adult patients on hemodalysis or continuous ambulatory pertnead idalysis (CAPD), is 4 mg/kg (CSSSI) or 6 mg/kg (*S. aureus* bloodstream infections) once every 48 hours (Table 3). When possible, daptomycin for injection should be administered following the completion of hemodalysis on hemodalysis days [see Warnings and Becaritors (*C. B. J.* 10). Unc is *Georgic Pacultare* (*S. Carellare Cherol Bharmerology*). Precautions (5.2, 5.10), Use in Specific Populations (8.6), and Clinical Pharmacology (12.3)].

Table 3: Recommended Dosage of Daptomycin for Injection in Adult Patients

Creatinine Clearance(CL _{CR})	Dosage Regimen in Adults		
	cSSSI	S. aureusBloodstrear Infections	
Greater than or equal to 30 mL/min	4 mg/kg once every 24 hours	6 mg/kg once every 24 hours	
Less than 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

Pediatric Patients: The dosage regimen for daptomycin for injection in pediatric patients with renal impairment has not been established.

2.7 Preparation and Administration of Daptomycin for Injection

There are other formulations of daptomycin that have differences concerning reconstitution and storage. Carefully follow the reconstitution and storage procedures described in this labeling.

Reconstitution of Daptomycin for Injection Vial

Daptomycin for injection is supplied in single-dose vials, each containing 500 mg daptomycin as a sterile, lyophilized cake or powder. The contents of a daptomycin for injection vial should be reconstituted with 0.9 % sodium chloride injection, using aseptic technique, to 50 mg/mL as follows: 1. To minimize foaming, AVOID vigorous agitation or shaking of the vial during or after onstitution

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 Tubber stopper into the daptomycin for injection vial, pointing the transfer needle toward the wall of the vial. It's 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. Ensure that all of the daptomycin for injection powder is wetted by gently rotating the vial.

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

2. 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:

Adults

Intravenous Injection over a period of 2 minutes • For intravenous (IV) injection over a period of 2 minutes in adult patients only: 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 in adult patients: 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.

Pediatric Patients (1 to 17 Years of Age)

- Pedatric Patients (1 to 17 Years of Age) Intravenous Infusion over a period of 30 or 60 minutes Unlike in Adults, do NOT administer daptomycin by injection over a two (2) minute period to pediatric patients [see Dosage and Administration (2.1)]. For Intravenous infusion over a period of 60 minutes in pediatric patients 1 to 6 years of age: The appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/m1) should be further diluted, using a septic technique, into an intravenous infusion vary a Period 2 mL for 0.9% sodium chloride injection. The infusion rate should be maintained 25 mL of 0.9% sodium chloride injection. The infusion rate should be maintained 27 and Turkininute over the 60-minute period. For Intravenous infusion over a period of 30 minutes in pediatric patients 7 to 17 years of age: The appropriate volume of the reconstituted daptomycin for injection (concentration of 50 mg/mL) should be further diluted, using a septic technique, into a 50 mL (Vi infusion bag containing 0.9% sodium chloride injection. The infusion rate should be maintained at 1.67 mL/minute 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 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

2.8 Compatible Intravenous Solutions for Reconstitution and Dilution

- 12

¹ Daptomycin for injection is compatible with 0.9% sodium chloride injection for reconstitution. ² Reconstituted Daptomycin injection can only be diluted with 0.9% sodium chloride injection.

2.9 Incompatibilities

Daptomycin for injection is not compatible with dextrose-containing diluents Daptomycin for

Uaptomycin 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-mercaptoberzothizable) 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 addeed to daptomycin for injection single-dose vials or injection through the same IV lime. If the same (IV lime 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

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

4 CONTRAINDICATIONS

Daptomycin for injection is contraindicated in patients with known hypersensitivity to daptomycin [see Warnings and Precautions (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Anaphylaxis/Hypersensitivity Reactions

Anaphylaxis/hypersensitivity reactions have been reported with the use of antibacterial agents, including daptomycin for injection, and may be life-threatening. If an allergic reaction to daptomycin for injection 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 for injection. Rhabdomyolysis, with or without acute renal failure, has been reported [see Adverse Reactions (6.2)].

Patients receiving daptomycin for injection should be monitored for the development of muscle pain or weakness, particularly of the distal extremities. In patients who receive daptomycin for injection, 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 for injection.

In adult patients with renal impairment, both renal function and CPK should be monitored more frequently than once weekly [see Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)].

Pharmacology (12.3). In Phase 1 studies and Phase 2 clinical trials in adults, CPK elevations appeared to be more frequent when daptomycin for injection was dosed more than once daily. Therefore, 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 (210 × 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

5.3 cosmoprime rneumonia Eosinophile 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 infitrates or organizing pneumonia. In general, patients developed eosinophilic pneumonia 2 to 4 weeks after starting daptomych for injection and improved when daptomycin for injection was discontinued and steroid therapy was initiated. Recurrence of eosinophilic pneumonia uno repneumonia 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 undergo prompt discontinued immediately. Treatment with systemic steroids is recommended.

5.4 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

DRESS has been reported in post-marketing experience symptoms (DRESS) DRESS has been reported in post-marketing experience with daptomycin for injection [see Adverse Reactions (6.2)]. Patients who develop skin rash, fever, peripheral eosinophila, and systemic organ (for example, hepatic, renal, pulmonary) inpairment willie receiving daptomycin for injection should undergo metical evaluation. If DRESS is suspected, discontinue daptomycin for injection promptly and institute appropriate treatment.

5.5 Tubulointerstitial Nephritis (TIN)

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

5.6 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. Monitor for neuropathy and consider discontinuation.

5.7 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 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 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.

Overgrowing of C, unitake. 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 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 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.

5.9 Persisting or Relapsing S. aureus Bacteremia/Endocarditis

Patients with persisting or relapsing S. aureus bacteremia/endocarditis or poor clinical response should have geneat blood cultures. If a blood culture is positive for 5 *sureus*, 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* solute) [see *Clinical Studies* (14.2)].

5.10 Decreased Efficacy in Patients with Moderate Baseline Renal Impairment 5.10 Decreased Efficacy in Patients with Moderate Baseline Renal impairment Limited data are valiable from the two Phase 3 complicated skin and skin structure infection (CSSSI) trials regarding clinical efficacy of daptomych for injection treatment in adult patients with creatince learnane (CL_{CP} < 50 m/l/min: only 31/534 (RS) patients treated with daptomycin for injection in the intent-to-treat (ITT) population had a baseline CL_{CP} < 50 m/l/min. Table 4 shows the number of adult patients by renal function and treatment group who were clinical successes in the 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)

	Success Rate n/N (%)	
CL _{CR}	Daptomycin for Injection 4 mg/kg every 24h	Comparator
50 to 70 mL/min	25/38 (66%)	30/48 (63%)
30 to <50 mL/mir	17/15 (47%)	20/35 (57%)

In a subgroup analysis of the ITT population in the Phase 3 S. aureus In a subgroup analysis of the IT hypotacion in the Prase D.S. Autority and the subscreenia and the subscre

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)

Success Rate n/N (%)								
	Daptomycin 6 mg/kg eve	For Injection ery 24h		Comparator				
Baseline CL _{CR}		Right-Sided		Right-Sided				
	Bacteremia		Bacteremia					
>80 mL/min	30/50 (60%)	7/14 (50%)	19/42 (45%)	5/11 (46%)				
50 to 80 mL/min	12/26 (46%)	1/4 (25%)	13/31 (42%)	1/2 (50%)				
30 to <50 mL/mir	n2/14 (14%)	0/1 (0%)	7/17 (41%)	1/1 (100%)				

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

5.11 Increased International Normalized Ratio (INR)/Prolonged Prothrombin Time

Clinically relevant plasma concentrations of daptomycin have been observed to cause a Enables to the second plant of the second se

5.12Development of Drug-Resistant Bacteria

Prescribing daptomycin for injection in the absence of a proven or strongly suspected bacterial infection or a prophysicit indication 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)]

Drug reaction with Eosinophilia and Systemic Symptoms [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)]

6.1 Clinical Trials Experience

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.

Clinical Trial Experience in Adult Patients

Clinical trials enrolled 1,864 adult patients treated with daptomycin for injection and 1,416 treated with comparator

Complicated Skin and Skin Structure Infection Trials in Adults

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

The rates of the most common adverse reactions, organized by body system, observed in adult patients with, cSSSI (receiving 4 mg/kg daptomycin for injection) are displayed in Table 6.

Table 6. Incidence of Adverse Reactions that Occurred in ≥2% of Ad Patients in the Daptomycin for Injection Treatment Group and ≥ the Comparator Treatment Group in Phase 3 cSSSI Trials

	Adult Patients (%)	
Adverse Reaction	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	1.6
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 penicium doses).

Drug-related adverse reactions (possibly or probably drug-related) that occurred in <1% of adult 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 distension, stomatitis, jaundice, increased serum lactate dehydrogenase

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

Musculoskeletal System: myalgia, muscle cramps, muscle weakness, arthraigia Nervous System: vertigo, mental status change, paresthesia

Special Senses: taste disturbance, eve irritation

S. aureus Bacteremia/Endocarditis Trial in Adults

In the 5. aureus bacteremia/endocarditis trial involving adult patients, 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.

comparator was discontinued in 21/116 (18.1%) patients. Serius Gram-negative infections (including blodstream infections) were reported in 10/120 (8.3%) daptomycin for injection-treated patients and 0/115 comparator-treated patients. Comparator-treated patients received dual therapy that included inibial gentamics for 4 days. Infections were reported during treatment and during early and late follow-up. Gram-negative infections included cholognistic, alcohole pancereatis, sternal osteonyeit8/mediastinit8, bowei infarction, recurrent Crohn's disease, recurrent line sepsis, and recurrent urosepsis 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 for injection) are displayed in Table 7.

Table 7. Incidence of Adverse Reactions that Occurred in ≥5% of Adult Patients in the Daptomycin For Injection Treatment Group and ∠ the Comparator Treatment Group in the *S. aureus* Bacteremia/Endocarditis Trial

	Adult Patients n (%)
Adverse Reaction*	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 disorde	rs	
Pruritus	7 (6%)	6 (5%)
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 pencilin (i.e., nafcilin, oxacilin, cloxacilin, or flucloxacilin; 2 g IV q4h), each with initial low-dose gentamicin.

The following reactions, not included above, were reported as possibly or probably drugrelated in the daptomycin for injection-treated group

Blood and Lymphatic System Disorders: eosinophilia, lymphadenopathy, thrombocythemia, 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, hypoesthesia oral

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

Investigations: blood phosphorous 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 cardiorespiratory adverse events were higher in daptomycin for injection-treated patients than in comparator-treated patients. These differences were due to lack of therapeutic effectiveness of daptomycin for injection in the ivcin treatment of CAP in patients experiencing these adverse events [see Indications and Usage (1.4)].

Laboratory Changes in Adults

Complicated Skin and Skin Structure Infection Trials in Adults

Completed skm and skm Structure Infection I risk in Adults In Phase 3 cSSSI trials of adult patients receiving daptomycin for injection at a dose of 4 mg/kg, elevations in CPK were reported as clinical adverse events in 15/534 (2.8%) daptomycin for injection-treated patients, compared with 10/558 (1.8%) comparator-treated patients. Of the 534 patients treated with daptomycin for injection, 10 (0.2%) had symptoms of muscle pain or weakness associated with CPK elevations to greater than 4 times the upper limit of normal (ULN). The symptoms resolved within 3 days and CPK returned to normal within 7 to 10 days after treatment was discontinued [see Warnings and Precautions (5.2)]. Table 8 summarizes the CPK shifts from Baseline through End of Therapy in the cSSSI adult trials.

Table 8. Incidence of CPK Elevations from Baseline during Therapy in Either the Daptomycin for Injection Treatment Group or the Comparator Treatme Group in Phase 3 cSSS1 Adult Trials

	All Adu	lt Patient	s			Patients w Baseline	ith No	rmal
Change in CPK	Daptomycin for Injection 4 mg/kg (N=430)		Comparator (N=459)		Daptomycin for *Injection 4 mg/kg (N=374)		Comparator (N=392)	
	%	n	%	n	%	n	%	n
No Increase	90.7	390	91.1	418	91.2	341	91.1	357
Maximum Value >1× ULN †	9.3	40	8.9	41	8.8	33	8.9	35
>2× ULN	4.9	21	4.8	22	3.7	14	3.1	12
>4× ULN	1.4	6	1.5	7	1.1	4	1	4
>5× ULN	1.4	6	0.4	2	1.1	4	0	0
>10× ULN	0.5	2	0.2	1	0.2	1	0	0

Note: Elevations in CPK observed in adult patients treated with daptomycin for injection or comparator were not clinically or statistically significantly different.

* Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicilin (i.e., nafcilin, oxacilin, cloxacilin, or flucloxacilin; 4 to 12 g/day IV in divided doses).

† ULN (Upper Limit of Normal) is defined as 200 U/L.

S. aureus Bacteremia/Endocarditis Trial in Adults

In the S. aureus bacteremia/endocarditis trial in adult patients, at a dose of 6 mg/kg, 11/120 (9.2%) daptomycin for injection- treated patients, including two patients with baseline CPK levels >500 U/L, had CPK elevations to levels >500 U/L, compared with

1/116 (0.9%) comparator-treated patients. Of the 11 daptomycin for injection-treated patients, 4 had prior or concomitant treatment with an HMG-CoA reductase inhibtor. Three of these 11 daptomycin for nijection-treated patients discontinued therapy due to CPK elevation, while the one comparator-treated patient did not discontinue therapy [see Warnings and Precautions (5.2)].

Clinical Trial Experience in Pediatric Patients

Complicated Skin and Skin Structure Infection Trial in Pediatric Patients

The safety of daptomych was evaluated in one chical trial (in CSSI), which included 256 pediatric patients (1 to 17 years of age) treated with intravenous daptomych and 133 patients treated with comparator agents. Patients were given age-dependent doses once daily for a treatment period of up to 14 days (median treatment period was 3 days). The doses given by age group were as follows: 10mg/kg for 1 to < 2 years, 9 mg/kg for 2 to 6 years, 7mg/kg for 7 to 11 years and 5 mg/kg for 12 to 17 years of age (see Chical Studies (14)). Patients treated with daptomycin were (51%) male, (49%) female and (46%) Caucrasian and (13%) Asian. female and (46%) Caucasian and (32%) Asian.

Adverse Reactions Leading to Discontinuation

In the cSSSI study, daptomycin was discontinued in 7/256 (2.7%) patients due to an adverse reaction, while comparator was discontinued in 7/133 (5.3%) patients.

Most Common Adverse Reactions

The rates of the most common adverse reactions, organized by body system, observed in these pediatric patients with cSSSI are displayed in Table 9.

Table 9: Adverse Reactions that Occurred in ≥2% of Pediatric Patients in the Daptomycin Treatment-Arm and Greater Than or Equal to the Comparator Treatment-Arm in the cSSI Pediatric Trial

		N = Comparator*(N =
Adverse Reaction	256)	133)
	n (%)	n (%)
Gastrointestinal disorders		
Diarrhea	18 (7.0)	7 (5.3)
Vomiting	7 (2.7)	1 (0.8)
Abdominal Pain	5 (2.0)	0
Skin and subcutaneous tissue dis	orders	
Pruritus	8 (3.1)	2 (1.5)
General disorders and administration	tion site	
Pyrexia	10 (3.9)	4 (3.0)
Investigations		
Blood CPK increased	14 (5.5)	7 (5.3)
Nervous system disorders		
Headache	7 (2.7)	3 (2.3)

*Comparators included intravenous therapy with either vancomycin, clindamycin, or an anti-staphylococcal semi-synthetic penicillin (nafcillin, oxacillin or cloxacillin)

The safety profile in the clinical trial of cSSSI pediatric patients was similar to that observed in the cSSSI adult patients.

S. aureus Bacteremia Trial in Pediatric Patients

The safety of daptomycin was evaluated in one clinical trial (in *S. aureus* bacteremia), which treated 55 pediatric patients with intravenous daptomycin and 26 patients with with ureated 55 pediatric patients with intravenous daptores ourses better enila), comparator agents. Patients were given age-dependent doses once day for a treatment period of up to 42 days (mean duration of 1V treatment was 12 days). The doses by age group were as follows: 12 mg/kg for 1 to <6 years, 9 mg/kg for 7 to 11 years and 7 mg/kg for 12 to 17 years of age [see Clinical Studies (14), Patients treated with daptomycin were (69%) male and (31%) female. No patients 1 to <2 years of age were enrolled.

Adverse Reactions Leading to Discontinuation

In the bacteremia study, daptomycin was discontinued in 3/55 (5.5%) patients due to an adverse reaction, while comparator was discontinued in 2/26 (7.7%) patients. Most Common Adverse Reactions

The rates of the most common adverse reactions, organized by body system, observed in these pediatric patients with bacteremia are displayed in Table 10.

Table 10: Incidence of Adverse Reactions that Occurred in $\geq 5\%$ of Pediatric Patients in the Daptomycin Treatment-Arm and Greater Than or Equal to the Comparator Treatment-Arm in the Pediatric Bacteremia Trial

Adverse Reaction	Daptomycin(N	Daptomycin(N = 55)Comparator(N = 26)					
Adverse Reaction	n (%)	n (%)					
Gastrointestinal disorders							
Vomiting	6 (10.9)	2 (7.7)					
Investigations							
Blood CPK increased	4 (7.3)	0					

*Comparators included intravenous therapy with either vancomycin, cefazolin, or an anti-staphylococcal semi-synthetic penicillin (nafcillin, oxacillin or cloxacillin)

6.2 Post-Marketing Experience

The following adverse reactions have been identified during post-approval use of daptomycin for injection. Because these reactions are reported voluntarily from a population of uncertain size, it is not aways possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and lymphatic system disorders: anemia, thrombocytopenia

General and administration site conditions: pyrexia

Immune System Disorders: anaphylaxis; hypersensitivity reactions, including angioedema, pruritus, hives, shortness of breath, difficulty swallowing, truncal, erythema, and pulmonary eosinophila [see Contraindications (4) and Warnings and Precautions (5.1)]

Infections and Infestations: Clostridioides difficile-associated diarrhea [see Warnings and Precautions (5.8)]

Laboratory Investigations: platelet count decreased

Muscubsketal Disorders: myoglobin increased; rhabdomyolysis (some reports involved patients treated concurrently with daptomycin for injection and HMG-CoA reductase inhibitors) (see Warnings and Precautions (5.2), Drug Interactions (7.1), and Clinical Pharmacology (12.3)]

Respiratory, Thoracic, and Mediastinal Disorders: cough, eosinophilic pneumonia, organizing pneumonia. [see Warnings and Precautions (5.3)]

Nervous System Disorders: peripheral neuropathy [see Warnings and Precautions (5.6)] Skin and Subcutaneous Tissue Disorders: services skin reactions, including drug reaction with eosinophila and systemic symptoms (DRESS), vesiculobulous rash (with or without mucous membrane involvement, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis [TEN]), and acute generalized exanthematous pustulosis (see Warnings and Precautions (S-d))

Gastrointestinal Disorders: nausea, vomiting

Renal and urinary disorders: acute kidney injury, renal insufficiency, renal failure , and tubulointerstitial nephritis (TIN) [see Warnings and Precautions (5.5)] Special Senses: visual disturbances

7 DRUG INTERACTIONS

7.1 HMG-CoA Reductase Inhibitors

In healthy adult subjects, concomitant administration of daptomycin for injection and simvastatin had no effect on plasma trough concentrations of simvastatin, and there were no reports of skeletal myopathy [see Clinical Pharmacology (12.3)].

Nower, inhibitors of HMC-COA reductase may cause mycopaly (12.3); However, inhibitors of HMC-COA reductase may cause mycopathy, which is manifested as muscle pain or weakness associated with elevated levels of creatine phosphokinase (CPK). In the adult Phase 3 5. aureus bacteremia/endocarditis trial, some patients who received prior or concomitant treatment with an HMC-COA reductase inhibitor develope elevated CPK (see Adverse Reactions (6.1)). Experience with the coadministration of HMC-COA reductase inhibitors and daptomych for injection in patients is limited; Interefore, consideration should be given to suspending use of HMC-COA reductase inhibitors temporarily in patients receiving daptomycin for injection.

7.2 Drug-Laboratory Test Interactions

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 thromboplestin reagents are utilized for the assay. The possibility of an erroneously elevated PT/INR result due to interaction with a recombinant thromboplastin reagent may be minimized by drawing specimens for PT or INR testing near the time of trough plasma concentrations of daptomycin. However, sufficient daptomycin concentrations may be present at trough to cause interaction.

If confronted with an abnormally high PT/INR result in a patient being treated with daptomycin for injection, it is recommended that clinicians:

Repeat the assessment of PT/INR, requesting that the specimen be drawn just prior to the next daptomycin for injection dose (i.e., at trough concentration). If the PT/INR value obtained at trough remains substantially elevated above what would otherwise be expected, consider evaluating PT/INR tultizing an alternative method.
 Evaluate for other causes of abnormally elevated PT/INR results.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Trace community is a second se

The background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Data

Animal Data

In pregnant rats, daptomycin was administered intravenously at doses of 5, 20, or 75 mg/kg/day during the gestation days 6 to 18. Maternal body weight gain was decrease at 75 mg/kg/day.

No embryo/fetal effects were noted at the highest dose of 75 mg/kg/day, a dose approximately 2-fold higher than in humans at the recommended maximum dose of 6mg/kg (based on body surface area).

In pregnant rabbits, daptomycin was administered intravenously at doses of 5, 20, or 75 mp/gg/ady during the gestation days 6 to 15. Maternal body weight gain and food consumption were decreased at 75 mg/kg/day. No embryo/fetal effects were noted at the highest does of 75 mg/kg/day, a does eaproximately 4-fold higher than in humans at the maximum recommended dose of 6mg/kg (based on body surface area).

In a combined fertility and preportatal development study. daptomych was administered intravenously to female rats at doses of 2, 25, 75 mg/kg/day from 14-days pre-mating through lactaton/postpartur day 20). No effects on pre/postnatal development were observed up to the highest dose of 75 mg/kg/day, a dose approximately 2-fold higher than the maximum recommended human dose of 6 mg/kg (based on body surface area)¹.

8.2 Lactation

Risk Summary

Limited published data report that daptomycin is present in human mik at infant doses of 0.1% of the maternal dose (see Data)^{2.3,4}. There is no information on the effects of daptomycin on the breastfed infant or the effects of daptomycin on mik production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for daptomycin and any potential dayterse effects on the breastfed infant from daptomycin or mik prevised infant from daptomycin or not mother setting a start of the setting and the setting maternal condition.

8.4 Pediatric Use

The safety and effectiveness of daptomycin in the treatment of cSSSI and *S. aureus* bloostream infections (bacteremia) have been established in the age groups 1 to 17 years of age. Use of daptomycin in these age groups is supported by evidence from adequate and well-controlled studies in adults, with additional data from pharmacokinetic studies in pediatric patients, and from safety, effcacy and PK studies in pediatric patients with cSSI and *S. aureus* bloostream infections [see Adverse Reactions (6.1), *Clinical Pharmacology* (12.3), and *Clinical Studies* (14.1), (14.2)].

Safety and effectiveness in pediatric patients below the age of one year have not been established. Avoid use of daptomycin in pediatric patients by ounger than one year of age due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (elither peripheral and/or central) observed in neonatal dogs [see Warnings and Precautions (5.7) and Nonclinical Toxicology (13.2)].

Daptomycin is not indicated in pediatric patients with renal impairment because dosage has not been established in these patients.

Daptomycin has not been studied in pediatric patients with other bacterial infections.

8.5 Geriatric Use

Of the 534 adult patients treated with daptomycin for injection in Phase 3 controlled Of the 544 adult patients treated with daptomycin for injection in Phase 3 controlled clinical trials of complicated sikin and skin structure infections (CSSDI, 27%) were 65 years of age or older and 12% were 75 years of age or older. Of the 120 adult patients treated with daptomycin for injection in the Phase 3 controlled clinical trials of *S. aureus* bacteremia/endocarditis, 25% were 65 years of age or older and 16% were 75 years of age or older. In Phase 3 adult clinical trials of CSSDI and *S. aureus* bacteremia/endocarditis, clinical success rates were lower in patients ≥65 years of age than in patients <65 years of age. In addition, treatment-emergent adverse events were more common in patients ≥65 years of age than in patients <65 years of age.

The exposure of daptomycin was higher in healthy elderly subjects than in healthy young adult subjects. However, no adjustment of daptomycin for injection dosage is warranted for elderly patients with creatinine clearance (CL_{CR}) \geq 30 mL/min [see Dosage and Administration (2.6) and Clinical Pharmacology (12.3)].

8.6 Patients with Renal Impairment

Daptomycin is eliminated primarily by the kidneys; therefore, a modification of Logurumycu is eliminated primarily by the kidneys; therefore, a modification of daptomycin for injection dosage interval is recommended for adult patients with CLCR <30 mL/min, including patients receiving hemodialysis or continuous ambulatory pertoneal dialysis (CAPD). In adult patients with renal impairment, both renal function and creatine phosphokinase (CPK) should be monitored more frequently than once weekly (see Dosage and Administration (2.6), Warnings and Precautions (5.2, 5.10), and Clinical Pharmacology (12.3)).

The dosage regimen for daptomycin in pediatric patients with renal impairment has not been established.

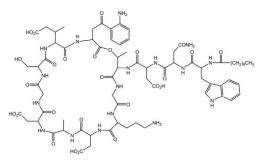
10 OVERDOSAGE

In the event of overdosage, supportive care is advised with maintenance of glomerular fibration. Daptomycn is cleared slowly from the body by hemodialysis (approximately 15% of the administered dose is removed over 4 hours) and by peritoneal dialysis (approximately 11% of the administered dose is removed over 48 hours). The use of high-flux dialysis membranes during 4 hours of hemodialysis may increase the percentage of dose removed compared with that removed by low-flux membranes.

11 DESCRIPTION

Daptomycin for njection contains daptomycin, a cyclc lipopeptide antibacterial agent derived from the fermentation of *Streptomyces roseosporus*. The chemical name is *N*-decanoyL-tryptophyl-Daspraighyl-L-aspratyl-L-threonylkylcyL-ornkhyl-L-aspartyl-D-alanyl-L-aspartylglycyl-D-seryl-threo-3-methyl-lglutamyl-3-anthranioyl-L-alanion ϵ_1 -alatone

The chemical structure is:



The molecular formula is C₇₂H₁₀₁N₁₇O₂₆; the molecular weight is 1620.67. Daptomycin for nijection is supplied in a single-dose vial as a sterile, preservative/ree, pale yelow to light brown, lyophilized cake or powder containing approximately 500 mg of daptomycin for intravenous (IV) use following reconstitution with 0.9% sodium chloride injection [see Dosage and Administration (2.7)]. The only inactive ingredient is sodium hydroxide, which is used for pH adjustment. Freshly reconstituted solutions of daptomycin for injection range in color from pale yellow to light brown.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Daptomycin is an antibacterial drug [see Clinical Pharmacology (12.4)].

12.2 Pharmacodynamics

Based on animal models of infection, the antimicrobial activity of daptomycin appears to correlate with the AUC/MIC (area under the concentration-time curvermininum inhibitory concentration) ratio for certain pathogens, including 5. aurcus. The principal pharmaco/hetic/pharmaco/hamic parameter best associated with clinical and microbiological cure has not been elucidated in clinical trials with daptomycin for injection.

12.3 Pharmacokinetics

Daptomycin for Injection Administered over a 30-Minute Period in Adults

The mean and standard deviation (SD) pharmacokinetic parameters of daptomycin at steady- state following intravenous (IV) administration of daptomycin for injection over a 30-minute period at 4 to 12 mg/kg every 24 to the althy young adults are summarized in Table 11.

Table 11. Mean (SD) Daptomycin Pharmacokinetic Parameters in Healthy Adult Volunteers at Steady-State

Dose*† (mg/kg)			Pharmacokinetic	Parameters	;
	AUC ₀₋₂₄ (mcg•h/mL) t _{1/2} (h)	Vss (L/kg)	CLT (mL/h/kg)	C _{max} (mcg/mL)
4 (N=6)	494 (75)	8.1 (1.0)	0.096 (0.009)	8.3 (1.3)	57.8 (3.0)
6 (N=6)	632 (78)	7.9 (1.0)	0.101 (0.007)	9.1 (1.5)	93.9 (6.0)
8 (N=6)	858 (213)	8.3 (2.2)	0.101 (0.013)	9 (3.0)	123.3 (16.0)
10 (N=9)	1039 (178)	7.9 (0.6)	0.098 (0.017)	8.8 (2.2)	141.1 (24.0)
12 (N=9)	1277 (253)	7.7 (1.1)	0.097 (0.018)	9 (2.8)	183.7 (25.0)

* Daptomycin for injection was administered by IV infusion over a 30-minute period.

† Doses of daptomycin for injection in excess of 6 mg/kg have not been approved.

 \pm AUC_{0.24, area under the concentration-time curve from 0 to 24 hours; $t_{1/2},$ elimination half-life;

Vss, volume of distribution at steady-state; CLT, total plasma clearance; C_{max}, maximum plasma concentration.

pastine concentration: Daptomycin pharmacokinetics were generally linear and time-independent at daptomycin for injection doses of 4 to 12 mg/kg every 24h administered by IV infusion over a 30-minute period for up to 14 days. Steady-state trough concentrations were achieved by the third daily dose. The mean (SD) steady-state trough concentrations attained following the administration or 4, 6, 8, 10, and 12 mg/kg every 24h were 5.9 (1.6), 6.7 (1.6), 10.3 (5.5), 12.9 (2.9), and 13.7 (5.2) mcg/mL, respectively. Daptomycin for Injection Administered over a 2-Minute Period in Adults

Eaconstruction of daptomycin for injection over a 2-minute period to healthy adult volunteers at doses of 4 mg/kg (N=8) and 6 mg/kg (N=12), the mean (SD) steady-state systemic exposure (AUC) values were 475 (71) and 701 (82) mcg+MmL, respectively. Values for maximum plasma concentration (C_{max}) at the end of the 2-minute period could not be determined adequately in this study. However, using pharmacokinetic parameters from 14 healthy adult volunteers who received a single dose of daptomycin for injection 6 mg/kg 104 administered over a 30-minute period not single and 6 mg/kg 104 administered over a 2-minute period not single and 6 mg/kg 104 administered over a 30-minute period not single added single and 6 mg/kg 104 administered over a 30-minute period for lastication for lastication for additional period. The simulated mean (SD) steady-state C_{max} values were 77.7 (8.1) and 116.6 (12.2) mcg/mL, respectively.

Distribution

Daptomycin is reversibly bound to human plasma proteins, primarily to serum albumin, in a concentration-independent manner. The overall mean binding ranges from 90 to 93%

In clinical studies, mean serum protein binding in adult subjects with creatinine clearance In clinical studies, mean serum protein ohnong in a oluci subjects with creatine celaratic (CL_{CR}) > 30 mL/min was comparable to that observed in healthy adult subjects with normal renal function. However, there was a trend toward decreasing serum protein binding among subjects with CL_{CR} < 30 mL/min (88%), including those receiving hemodialysis (86%) and continuous ambulatory pertoneal dialysis (ACPD) (84%). The protein binding of daptomycin in adult subjects with moderate hepatic impairment (CP Pugh Class B) was similar to that in healthy adult subjects. irment (Child-

The volume of distribution at steady-state (Vss) of daptomycin in healthy adult subjects was approximately 0.1 L/kg and was independent of dose.

Metabolism

In in vitro studies, daptomycin was not metabolized by human liver microsomes. In 5 healthy adults after infusion of radiolabeled ¹⁴C-daptomycin, the plasma total

In 5 heathy aduts after infusion of radiolabeled ¹⁴C-daptomycn, the plasma das radioactivity were detected in urine, as determined by microbiological assay. Inactive metabolites were detected in urine, as determined by the difference between total radioactivity were concentrations and microbiologically active concentrations. In a separate study, no metabolites were observed in plasma on Day 1 following the administration of daptomych for injection at 6 mg/kg to adult subjects. Minor amount of three oxidative metabolites and ne unidentified compound were detected in urine. The site of metabolites and been identified.

Excretion

Daptomycin is excreted primarily by the kidneys. In a mass balance study of 5 heathy adult subjects using radiolabeled daptomycin, approximately 78% of the administered dose was recovered from urine based on total radioactivity (approximately 52% of the dose based on microbiologically active concentrations), and 5.7% of the administered dose was recovered from frees (collected for up to 9 days) based on total radioactivity.

Specific Populations

Patients with Renal Impairment

Patients with Renal Impairment Population-derived pharmacokinetic parameters were determined for infected adult patients (complicated skin and skin structure infections [c5SSI] and 5. aureus bacteremia) and noninfected adult subjects with various degrees of renal function (Table 12). Total plasma clearance (CLT), elimination half-life (t₁₂), and volume of distribution at steady-state (Vss) in patients with CSSSI were similar to those in patients with 5. aureus bacteremia. Polowing administration of daptomycin for injection 4 mg/kg every 24h by IV infusion over a 30-minute period, the mean CLT was 9%, 22%, and 46% lower among subjects and patients with MG (CLcg 50 to 80 mL/min), moderate (CLcg, 30–500 mL/min), and severe (CLcg + 30 mL/min). The mean steady-state systemic exposure (AUC), t₁₂, and Vss increased with decreasing renal function, although the mean AUC for patients with normal renal function. The mean AUC for patients with CLcg N to 80 mL/min was not markedly different from the exaon mL/min and for patients on dialysis (CAPD and hemodialysis dosed post-dialysis) was approximately 2 and 3 times higher, respectively, than for patients with normal

renal function. The mean C_{max} ranged from 60 to 70 mcg/mL in patients with $CL_{CR} \geq 30$ mL/min, while the mean C_{max} for patients with $CL_{CR} < 30$ mL/min ranged from 41 to 58 mcg/mL. After administration of daptomycin for injection 6 mg/sq every 24 hb yl V infusion over a 30-minute period, the mean C_{max} ranged from 80 to 114 mcg/mL in patients with mid to moderate renal impairment and was similar to that of patients with normal renal function.

Table 12. Mean (SD) Daptomycin Population Pharmacokinetic Parameters Following Infusion of Daptomycin for Injection 4 mg/kg or 6 mg/kg to Infected Adult Patients and Noninfected Adult Subjects with Various Degrees of Renal Function

Renal Function Pharmacokinetic Parameters*

t _{1/2} †(h)4 mg/kg	Vsst(L/kg)4 mg/kg	CLT†(mL/h/kg)4 mg/kg	,AUC₀. ¹ ∞†(mcg∙h/mL)4 mg/kg	AUCss‡ j(mcg•h/mL)6 mg/kg	Cmin, ss‡ g(mcg/mL)6 mg/kg	,
Normal (CL _{CR} >80 mL/min)	9.39 (4.74) N=165	0.13 (0.05) N=165	10.9 (4.0) N=165	417 (155) N=165	545 (296) N=62	6.9 (3.5) N=61
Mild Renal Impairmen (CL _{CR} 50 to 80 mL/min)	t 10.75 (8.36) N=64	0.12 (0.05) N=64	9.9 (4.0) N=64	466 (177) N=64	637 (215) N=29	12.4 (5.6) N=29
Moderate Renal Impairment (CL _{CR} 30 - <50 mL/min)	14.70 (10.50) N=24	0.15 (0.06) N=24	8.5 (3.4) N=24	560 (258) N=24	868 (349) N=15	19 (9) N=14
Severe Renal Impairment (CL _{CR} <30 mL/min)	27.83 (14.85) N=8	0.20 (0.15) N=8	5.9 (3.9) N=8	925 (467) N=8	1050 (892) N=2	24.4 (21.4) N=2
Hemodialysis	30.51 (6.51) N=16	0.16 (0.04) N=16	3.9 (2.1) N=16	1193 (399) N=16	NA	NA
CAPD	27.56 (4.53) N=5	0.11 (0.02) N=5	2.9 (0.4) N=5	1409 (238) N=5	NA	NA

Note: Daptomycin for injection was administered over a 30-minute period.

* CL_{CR}, creatinine clearance estimated using the Cockcroft-Gault equation with actual CCC, Cleanine Contractor Using the control of the state of the stat

[†] Parameters obtained following a single dose from patients with complicated skin and skin structure infections and healthy subjects.

‡ Parameters obtained at steady-state from patients with S.aureus bacteremia

Because renal excretion is the primary route of elimination, adjustment of daptomycin for injection dosage interval is necessary in adult patients with severe renal impairment (CL_{CR} <30 mL/min) [see Dosage and Administration (2.6)].

Hepatic Impairment

The pharmacokinetics of daptomycin were evaluated in 10 adult subjects with moderate The pharmacokinetics of daptomycin were evaluated in 10 adult subjects with moderati hepatic impairment (Child-Pupi Class B) and compared with those in healthy adult volunteers (N=9) matched for gender, age, and weight. The pharmacokinetics of daptomycin were not altered in subjects with moderate hepatic impairment. No dosage adjustment is warranted when daptomycin for injection is administered to patients with mild to moderate hepatic impairment. The pharmacokinetics of daptomycin in patients with severe hepatic impairment (Child-Pugh Class C) have not been evaluated. Gender

No clinically significant gender-related differences in daptomycin pharmacokinetics have been observed. No dosage adjustment is warranted based on gender when daptomyci for injection is administered.

GeriatricPatients

The pharmacokinetics of daptomycin were evaluated in 12 healthy elderly subjects (\geq 75 years of age) and 11 healthy young adult controls (18 to 30 years of age). Following administration of a single 4 mg/kg dose of daptomycin for injection by IV infusion over a 30-minute period, the mean total clearance of daptomycin was approximately 35% lower and the mean AUCo...was approximately 55% higher in elderly subjects than in healthy young adult subjects. There were no differences in C_{max}/see Use in Specific Populations (8.5)].

Obese Patients

Obese Patents The pharmacokinetics of daptomycin were evaluated in 6 moderately obese (Body Mass Index (BMI) 25 to 39.0 kg/m²) and 6 extremely obese (BMI ≥40 kg/m²) adult subjects and controls matched for age, gender, and renal function. Following administration of daptomycin for injection by IV infusion over a 30-minute period as a single 4 mg/kg dose based on total body weight, the total plasma clearance of daptomycin normalized to total body weight was approximately 15% lower in moderately obese subjects and 23% lower in extremely obese subjects than in nonobese controls. The AUC₀... of daptomycin was approximately 30% higher in moderately obese subjects and 31% higher in extremely obese subjects than in nonobese controls. The differences were most likely due to differences in the renal clearance of daptomycin. No adjustment of daptomycin for injection dosage is warranted in obese patients.

Pediatric Patients

The pharmacokinetics of daptomycin in pediatric subjects was evaluated in 3 single-doss pharmacokinetic studies. In general, body weight-normalized total body clearance in pediatric patients was higher than in adults and increased with a decrease of age, whereas elimination half-life tends to decrease with a decrease of age. Body weight-normalized total body clearance and elimination half-life of daptomycin in children 2 to 6 years of age were similar at different doses. dose

A study was conducted to assess safety, effcacy, and pharmacokinetics of daptomycin in pediatric patients (1 to 17 years old, inclusive) wth CSSSI caused by Gram-positive pathogens. Patients were enrolled into 4 age groups [see Clinical Studies [14.1]), and intravenous daptomycin doses of 5 to 10 mg/kg once daily were administered. Following administration of multiple doses, daptomycin exposure (AUCss and Cmax, ss) was similar across different age groups after dose adjustment based on body weight and ane (Cable 13). age (Table 13).

Table 13: Mean (SD) Daptomycin Population Pharmacokinetic Parameters in cSSSI Pediatric Patients

	Pharma	cokinetic Pa	arameters				
Age		Infusion Duration (min)	AUC _{ss} (mcg•h/mL)	t _{1/2} (h)	V _{ss} (mL)	CL _T (mL/h/kg)	C _{max,ss} (mcg/mL)
12 to 17 years (N=6)	5	30	434 (67.9)	7.1 (0.9)	8200 (3250)	11.8 (2.15)	76.4 (6.75)
7 to 11 years (N=2)	7	30	543*	6.8*	4470*	13.2*	92.4*
2 to 6 years (N=7)		60	452 (93.1)	4.6 (0.8)	2750 (832)	20.8 (4.29)	90.3 (14.0)
1 to less than 2 years (N=27)	10	60	462 (138)	4.8 (0.6)	1670 (446)	23.1 (5.43)	81.6 (20.7)

AUC_{ss}, area under the concentration-time curve at steady state; CL_T, clearance normalized to body weight; V_{ss}, volume of distribution at steady state; t_{y_3}, terminal half-life

*Mean is calculated from N=2

A study was conducted to assess safety, efficacy, and pharmacokinetics of daptomycin in pediatric patients with S. aureus bacteremia. Patients were enrolled into 3 age groups [see Clinical Studies [14.2]), and intravenous doses of 7 to 12 mg/kg once daily were administered. Following administration of multiple doses, daptomycin exposure (AUCss and Cmax, ss) was similar across different age groups after dose adjustment based on body weight and age (Table 14).

Table 14: Mean (SD) of Daptomycin Pharmacokinetics in Bacteremia Pediatric Patients

	Pharma	cokinetic P	arameters				
Age		Infusion Duration (min)	AUC _{ss} (mcg•h/mL)	t _{1/2} (h)	V _{ss} (mL)	CL _T (mL/h/kg)	C _{max,ss} (mcg/mL)
12 to 17 years(N=13	7	30	656 (334)	7.5 (2.3)	6420 (1980)	12.4 (3.9)	104 (35.5)
7 to 11 years(N=19	9	30	579 (116)	6.0 (0.8)	4510 (1470)	15.9 (2.8)	104 (14.5)
2 to 6 years(N=19)		60	620 (109)	5.1 (0.6)	2200 (570)	19.9 (3.4)	106 (12.8)

 $AUC_{ss},$ area under the concentration-time curve at steady state; $CL_{T},$ clearance normalized to body weight; $V_{ss},$ volume of distribution at steady state; $t \frac{1}{2},$ terminal half-

life No patients 1 to <2 years of age were enrolled in the study. Simulation using a population pharmacokinetic model demonstrated that the AUCs of daptomycin in pediatric patients 1 to <2 years of age receiving 12 mg/kg once daily would be comparable to that in adult patients receiving 6 mg/kg once daily. Drug Interaction Studies

In Vitro Studies

In vitro studies with human hepatocytes indicate that daptomycin does not inhibit or induce the activities of the following human cytochrome P450 isoforms: 1A2, 2A6, 2C9, 2C19, 2D6, 2E1, and 3A4. It's unlikely that daptomycin will inhibit or induce the metabolism of drugs metabolized by the P450 system.

Aztreonam

In a study in which 15 healthy adult subjects received a single dose of daptomycin for injection 6 mg/kg IV and a combination dose of daptomycin for injection 6 mg/kg IV and aztreonam 1 gIV, administered over a 30-minute period, the C_{max} and AUC_{0-a} of daptomycin were not significantly altered by aztreonam.

Tobramvcin

In a study in which 6 healthy adult males received a single dose of daptomycin for In a study in which 6 nearing abut makes received a single cose of daptorhych for injection 2 mg/kg IV, tobramych 1 mg/kg IV, and both in combination, administered over a 30-minute period, the mean C_{max} and AUC₀₋₀ of daptomych for injection was coadministered with tobramych. The mean C_{max} and AUC₀₋₀ of tobramych were 10.7% and 6.6% lower, respectively, when daptomych for injection was coadministered with tobramych, when tobramych was coadministered with adptomych for injection. These differences were not statistically significant. The interaction between daptomych and tobramych with a clinical dose of daptomych for injection is unknown.

Warfarin

In 16 healthy adult subjects, administration of daptomycin for injection 6 mg/kg every 24h by IV infusion over a 30-minute period for 5 days, with coadministration of a single oral dose of warfarin (25 mg) on the 5th day, had no significant effect on the pharmacoknetics of either drug and did not significantly alter the INR (International Normalized Ratio).

Simvastatin

In 20 healthy adult subjects on a stable daily dose of simvastatin 40 mg, administration of daptomycin for injection 4 mg/kg every 24h by IV infusion over a 30-minute period for 14 days (N=10) had no effect on plasma trough concentrations of simvastatin and was not associated with a higher incidence of adverse events, including skeletal myopathy, than in subjects receiving placebo once daily (N=10) [see Warnings and Precautions (5.2) and Drug Interactions (7.1)].

Probenecid

Concomitant administration of probenecid (500 mg 4 times daily) and a single dose of daptomycin for injection 4 mg/kg by IV infusion over a 30-minute period in adults did not significantly after the $C_{\rm max}$ of AUC_{per} of daptomycin.

12.4 Microbiology

Daptomycin belongs to the cyclic lipopeptide class of antibacterials. Daptomycin has clinical utility in the treatment of infections caused by aerobic, Gram-positive bacteria. The *in vitro* spectrum of activity of daptomycin encompasses most clinically relevant Gram-positive pathogenic bacteria.

Grain-positive patrogram backets. Daptomycine exhibits rapid, concentration-dependent bactericidal activity against Gram-positive bacteria in vitro. This has been demonstrated both by time-kill curves and by MBC/MIC (minimum bactericidal concentration/minimum inhibitory concentration) ratios using broth dilution methodology. Daptomycin maintained bactericidal activity in vitro against stationary phase 5. aureus in simulated endocardial vegetations. The clinical significance of this is not known.

Mechanism of Action

Daptomycin binds to bacterial cell membranes and causes a rapid depolarization of membrane potential. This loss of membrane potential causes inhibition of DNA, RNA, and protein synthesis, which results in bacterial cell death.

Resistance

The mechanism(s) of daptomycin resistance is not fully understood. Currently, there are no known transferable elements that confer resistance to daptomycin.

Interactions with Other Antibacterials

In vitro studies have investigated daptomycin interactions with other antibacterials. Antagonism, as determined by kill curve studies, has not been observed. In vitro synergistic interactions of daptomycin with aninoglycosides, B-lactam antibacterials, and rifampin have been shown against some isolates of staphylococci (including some methcillin-resistant isolates) and enterococci (including some wancomycin-resistant isolates).

Complicated Skin and Skin Structure Infection (cSSSI) Trials in Adults

The emergence of daptomycin non-susceptible isolates occurred in 2 infected patients across the set of Phase 2 and pivotal Phase 3 clinical trials of c5SSI in <u>adult</u> patients. In one case, a non-susceptible *S. aureus* was isolated from a patient in a Phase 2 trial who received daptomycin for injection at less than the protocol-specified dose for the initial 5 days of therapy. In the second case, a non-susceptible Enterococcus faecals was isolated from a patient with an infected chronic decubitus uicer who was enrolled in a salvage trial.

S. aureus Bacteremia/Endocarditis and Other Post-Approval Trials in Adults

In subsequent clinical trials <u>in adut</u> patients, non-susceptible isolates were recovered. S. aureus was isolated from a patient in a compassionate-use trial and from 7 patients in the S. aureus bacteremia/endocardits trial [see Clinical Studies (14.2)]. An E. faecium was isolated from a patient in a vancomych-resistant enterococci trial.

Antimicrobial Activity. Daptomycin has been shown to be active against most isolates of the following microorganisms both in vitro and in clinical infections [see Indications and Usage (1)]. Gram-Positive Bacteria

Enterococcus faecalis (vancomycin-susceptible isolates only) Staphylococcus aureus (including methicillin-resistant isolates)

Streptococcusagalactiae

Streptococcus dysgalactiae subsp. equisimilis

Streptococcuspyogenes.

The following in vitro data are available, <u>but their clinical significance is unknown</u>. At least 90 percent of the following bacteria exhibit an *in* vitro minimum inhibitory concentration (MC) less than or equal to the susceptible breakpoint for daptomycin against isolates of genus or organism group. However, the efficacy of daptomycin in treating clinical infections due to these bacteria has not been established in adequate and wellcontrolled clinical trials.

Gram-Positive Bacteria

Corynebacterium jeikeium

Enterococcus faecalis (vancomycin-resistant isolates)

Enterococcus faecium (including vancomycin-resistant isolates) Staphylococcus epidermidis (including methicillin-resistant isolates)

Staphylococcus haemolyticus

Susceptibility Testing

For specific information regarding susceptibility test interpretive criteria and associated test methods and quality control standards recognized by FDA for daptomycin, please see:https://www.fda.gov/STIC.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

13.1 Cart mogeness, induageness, impairment or retruct Long-term carcinogenick yatudies in animals have not been conducted to evaluate the carcinogenic potential of daptomycin for injection. However, nether mutagenic nor clastogenic potential was found in a battery of genotoxicity tests, including the Ames assay, an amamalan cell gene mutation assay, a test for chromosomal aberrations in Chinese hamster ovary cells, an in vivo micronucleus assay, an in vitro DNA repair assay, and an in vivo sister chromatid exchange assay in Chinese hamsters.

Daptomycin did not affect the fertility or reproductive performance of male and female rats when administered intravenously at doses of 25, 75, or 150 mg/kg/day, which is approximately up to 9 times the estimated human exposure level based upon AUCs (or approximately up to 4 times the recommended human dose of 6 mg/kg based on body

13.2 Animal Toxicology and/or Pharmacology

Adult Animals

Exum.cumulab. In animals, daptomycin administration has been associated with effects on skeletal muscle. However, there were no changes in cardiac or smooth muscle. Skeletal muscle effects were characterized by microscopic degenerative/regenerative changes and variable devations in created phosphokinase (CPA). No fbross or rhabdomyolysis was evident in repeat-dose studies up to the highest doses tested in rats (150 mg/kg/day) and dogs (100 mg/kg/day). The degree of skeletal myopathy showed no increase whene treatment was extended from 1 month to up to 6 months. Severity was dose-dependent. All muscle effects, including microscopic changes, were fully reversible within 30 days following the cessation of dosing.

In adult animals, effects on peripheral nerve (characterized by axonal degeneration and

In adult animals, effects on peripheral nerve (characterized by axonal degeneration and frequently accompanied by significant bases of patellar reflex, gag reflex, and pain perception) were observed at daptomycin doses higher than those associated with skeletal myopathy. Deficits in the dogs' patellar reflexes were seen within 2 weeks after the start of treatment at 40 mg/kg/day (2 times the human C_{max} at the 6 mg/kg/day dose), with some clinical improvement noted within 2 weeks after the cessation of dosing. However, at 75 mg/kg/day for 1 month, 7 of 8 dogs fialet to regain full patellar reflex responses within a 3-month recovery period. In a separate study in dogs receiving doses of 75 and 100 mg/kg/day for 2 weeks, minimal residual histological changes were noted at 6 months after the cessation of dosing. However, net showed hat daptomycin is retained

Tissue distribution studies in rats showed that daptomycin is retained in the kidney but appears to penetrate the blood-brain barrier only minimally following single and multiple doses.

Iuvenile Animals

Target organs of daptomycin-related effects in 7-week-old juvenile dogs were skeletal muscle and nerve, the same target organs as in adult dogs. In juvenile dogs, nerve effects were noted at lower daptomycin blood concentrations than in adult dogs following 28 days of dosing. In contrast to adult dogs, juvenile dogs also showed evidence of effects in nerves of the spinal cord as well as peripheral nerves after 28 days of dosing. No nerve effects were noted in juvenile dogs following 14 days of dosing at doses up to 75 mg/kg/day.

Administration of daptomycin to 7-week-old juvenie dogs for 28 days at doses of 50 mg/kg/day produced minimal degenerative effects on the peripheral nerve and spinal cord in several animals, with no corresponding clinical signs. A dose of 150 mg/kg/day for 28 days produced

minimal degeneration in the peripheral nerve and spinal cord as well as minimal to mild Imminior degeneration of the skeletal muscle in a majority of animals, accompanied by slight to severe muscle weakness evident in most dogs. Following a 28-day recovery phase, microscopic examination revealed recovery of the skeletal muscle and the ulnar nerve effects, but nerve degeneration in the scietar nerve and spinal cord was still observed in all 150 mg/kg/day dogs.

Following once-

Following once-ally administration of daptomycin to juvenile dogs for 28 days, microscopic effects in nerve tissue were noted at a C_{max} value of 417 mcg/mL, which is approximately 3-fold less than the C_{max} value associated with nerve effects in adult dogs treated once daily with daptomycin for 28 days (1366 ms g/mL).

Neonatal Animals

<u>Neonatai dog</u> (4 to 31 days old) were more sensitive to daptomycin-related adverse nervous system and/or muscular system effects than ether juvenile or adult dogs. In neonatai dogs, adverse nervous system and/or muscular system effects than ether juvenile dogs. and 9-fod less than the C_{max} in juvenile dogs. and 9-fod less than the C_{max} in juvenile dogs. The system effects than ether juvenile dogs. The system effects than ether in the system effects were associated with a c_{max} value approximately 3-fod less than the C_{max} in juvenile dogs. The system effects than the C_{max} in Juvenile dogs. The system effects than the clinical signs of 147 mcg/mL and 717 mcg h/mL, respectively (16 and 1-fold her adult human C_{max} and Aug, respectively, click and the final dist for than done incidence of muscle rigidity were observed with hin corresponding effect on body weight. These effects were found to be reversible within 28 days after treatment had stopped.

At higher dose levels of 50 and 75 mg/kg/day with associated Cmax and AUCinf values of ≥321 mcg/mL and ≥1470 mcg•h/mL, respectively, marked clinical signs of twitching, muscle rigidity in the limbs, and impaired use of limbs were observed. Resulting decreases in body weights and overall body condition at doses ≥50 mg/kg/day necessitated early discontinuation by postnatal day (PND) 19.

Histopathological assessment did not reveal any daptomycin-related changes in the peripheral and central nervous system tissue, as well as in the skeletal muscle or other tissues assessed, at any dose level.

No adverse effects were observed in the dogs that received daptomycin at 10 mg/kg/day, the NOAEL, with associated C_{max} and AUC_{int} values of 62 mcg/mL and 247 mcg hmL, respectively (or 0.6 and 0.4-fold the adult human C_{max} and AUC, respectively at the 6 mg/kg dose).

14 CLINICAL STUDIES

14.1 Complicated Skin and Skin Structure Infections

Adults with cSSSI

Adults with cSSSI Adult patients with clinically documented complicated skin and skin structure infections (CSSS) (Table 15) were enroled in two randomized, multinational, multicenter, investigator-binded trials comparing daptomycin for injection (4 mg/kg IV every 24h) with either vancomycin (1 g IV q12h) or an anti- staphylococal semi-synthetic penkillin (i.e., nafcllin, oxacillin, cbxacillin, et fuctoscallin; 4 to 12 g IV per day). Patients could switch to oral therapy after a minimum of 4 days of IV treatment if clinical improvement was demonstrated. Patients known to have bacteremia at baseline were excluded. Patients with creatinine clearance (CL_G) between 30 and 70 mL/min were to receive a lower dose of daptomycin for injection as specified in the protocol; however, the majorky of patients in this subpopulation did not have the dose of daptomycin for injection radjusted.

Table 15. Investigator's Primary Diagnosis in the cSSSI Trials in Adult Patients (Population: ITT)

During and	Primary Adult Patients (Daptomycin For Injection/Comparator*)										
Diagnosis	Study 9801N=264 / N=266	Study 9901N=270 / N=292	PooledN=534 / N=558								
Wound Infectio	n 99 (38%) / 116 (44%)	102 (38%) / 108 (37%)	201 (38%) / 224 (40%)								
Major Abscess	55 (21%) / 43 (16%)	59 (22%) / 65 (22%)	114 (21%) / 108 (19%)								
Ulcer Infection	71 (27%) / 75 (28%)	53 (20%) / 68 (23%)	124 (23%) / 143 (26%)								
Other Infection	39 (15%) / 32 (12%)	56 (21%) / 51 (18%)	95 (18%) / 83 (15%)								

* Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic pencilin (i.e., nafcilin, oxacilin, cloxacilin, or flucloxacilin; 4 to 12 g/day IV in divided doses).

† The majority of cases were subsequently categorized as complicated cellulitis, major abscesses, or traumatic wound infections.

One trial was conducted primarily in the United States and South Africa (study 9,801), and the second was conducted at non-US sites only (study 9,901). The two trials were similar in design but differed in patient characteristics, including history of diabetes and peripheral vascular disease. There were a total of 534 adult patients treated with daptomycin for injection and 558 treated with comparator in the two trials. The majority (89.7%) of patients received IV medication exclusively.

(89.7%) of patients received IV medication exclusively. The efficacy endpoints in both trials were the clinical success rates in the intent-to-treat (ITT) population and in the clinical waluable (CE) population. In study 9801, clinical success rates in the ITT population were 625% (155/264) in patients treated with deptomycin for injection and 60.9% (162/266) in patients treated with comparator drugs. Clinical success rates in the CE population were 76% (158/200) in patients treated with daptomycin for injection and 76.7% (158/200) in patients treated with daptomycin for injection and 76.7% (158/2016) in patients treated with daptomycin for injection and 76.7% (158/2016) in patients treated with comparator drugs. Clinical success rates in the ITT population were 80.4% (217/201 in patients treated with daptomycin for injection and 80.9% (235/292) in patients treated with comparator drugs. (226/250) in patients treated with daptomycin for injection and 90.4% (226/250) in patients treated with daptomycin for injection and 90.4% (226/250) in patients treated with comparator drugs.

The success rates by pathogen for microbiologically evaluable patients are presented in Table 16.

Pathogen	Success Rate n/N (%) Daptomycin For	Comparator*
	Injection	•
Methicillin-susceptible Staphylococcus aureus (MSSA) [†]	170/198(86%)	180/207 (87%)
Methicillin-resistant Staphylococcus aureus (MRSA) [†]	21/28 (75%)	25/36 (69%)
Streptococcus pyogenes	79/84 (94%)	80/88 (91%)
Streptococcus agalactiae	23/27 (85%)	22/29 (76%)
Streptococcus dysgalactiae subsp. equisimilis	8/8 (100%)	9/11 (82%)
Enterococcus faecalis (vancomycin-susceptible only)	27/37 (73%)	40/53 (76%)

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

[†]As determined by the central laboratory.

Pediatric Patients (1 to 17 Years of Age) with cSSSI

Pediatric Patients (1) to 17 Years of Agel with CSSS1 The CSSS pediatric trial was a single prospective multi-center, randomized, comparative trial. A total of 396 pediatric patients aged 1 to 17 years with CSSI caused by Gram positive pathogens were enrolled in to the study. Patients known to have bacteremia, osteonymelitis, endocarditis, and pneumonia at baseline were excluded. Patients were enrolled in a stepwise approach into four age groups and given age-dependent doses of daptomycin once daily for up to 14 days. The different age groups and doses evaluated were as follows: Adolescents (12 to 17 years) treated with 5 mg/kg of daptomycin (n=113), Children (7 to 11 years) treated with 7 mg/kg of daptomycin (n=113), children (2 to 6 years) treated with 9 mg/kg of daptomycin (n=125) and Infants (1 to <2 years) treated with 10 mg/kg (n= 45).

A start with 12 http://g (III = 49).
Patients were randomized 2:1 to receive daptomycin or a standard of care (SOC) comparator, which included intravenous therapy with either vancomycin, clindamycin, o an anti-staphylococcal semi-synthetic penicillin (nafcillin, oxacillin, or cloxacillin). Patients could switch to oral therapy after clinical improvement was demonstrated (no minimum IV dosing was required).

The primary objective of this study was to evaluate the safety of daptomycin. The clinical outcome was determined by resolution or improvement of symptoms at the End-of-Treatment (EOT), 3 days after the last dose, and Test-of-Cure (TOC), 7 to 14 days after Treatment (EOT), 3 days after the last dose, and Test-of-Cure (TOC), 7 to 14 days after the last dose. Investigato observed outcomes were verified in a binded fashion. Of the 396 subjects randomized in the study, 389 subjects were treated with daptomych or comparator and included in the ITT population. Of these, 257 subjects were randomized to the daptomycin group and 132 subjects were randomized to the comparator group. Approximately 95% of subjects switched to oral therapy. The mean day of switch was day 4, and ranged from day 1 to day 14. The clinical success rates determined at 7 to 14 days after last dose of therapy (IV and oral) (TOC visit) were 88% (227/257) for daptomycin and 86% (114/132) for comparator.

14.2 S. aureus Bacteremia/Endocarditis

Adults with S.aureus Bacteremia/Endocarditis

The efficacy of daptomycin for injection in the treatment of adult patients with S. aureus The efficacy of daptomycin for injection in the treatment of adult patients with *S. aureus* bacteremia was demonstrated in a randomized, controlled, multihational, multikationer, open-label trial. In this trial, adult patients with at least one positive blood culture for *S. aureus* obtained within 2 calendar days prior to the first dasse of study drug and irrespective of source were enrolled and randomized to either daptomycin for injection (6 mg/kg IV every 24h) or standard of care [an anti-staphylococcal semi-synthetic pencillin 2 g IV q4h (narclilin, oxacillin, cbacacillin, or fluctoxacillin or vancomycin 1 g IV q12h, each with initial gentamicin 1 mg/kg IV every 8 hours for first 4 days]. Of the patients in the comparator group, 93% received initial gentamicin for a median of 4 days compared with 1 patient (<1%) in the daptomycin for injection group. Patients with prosthetic heart valves, intravacular foreign material that was not planned for removal within 4 days after the first dose of study medication, severe neutropenia, known osteomyeliks, polymicrobial bloodstream infections, creatinine clearance <30 mL/min, and pneumonia were excluded. f 4 days,

and pneumona were excluded. Upon entry, patients were classified for ikkelihood of endocarditis using the modified Duke criteria (Possibile, Definite, or Not Endocarditis). Echocardiography, including a transesophageal echocardiogram (TEE), was performed within 5 days following study enrollment. The choice of comparator agent was based on the oxacillin susceptibility of the *S. aureus* isolate. The duration of study treatment was based on the investigator's clinical diagnosis. Final diagnoses and outcome assessments at Test of Cure (6 weeks after the last treatment dose) were made by a treatment-binded Adjudication Committee, using protocol-specified clinical definitions and a composite primary efficacy endpoint (clinical and microbiological success) at the Test of Cure visit.

endpoint (clinical and microbiological success) at the Test of Cure vsit. A total of 246 patients \geq 18 years of age (124 daptomycin for injection, 122 comparator) with S. *aureus* bacteremia were randomized from 48 centers in the US and Europe. In the ITT population, 120 patients received daptomycin for injection and 115 received vancomycin). Thirty-five patients treated with an anti-staphylococcal semi-synthetic penkillin and 53 received vancomycin). Thirty-five patients treated with an anti-staphylococcal semi-synthetic penkillin and 53 received vancomycin). Thirty-five patients treated with an anti-staphylococcal semi-synthetic penkills may 53 years (range: 21 to 3 days, pending final susceptibility results for the 5. *aureus* isolates. The median age among the 235 patients in the ITT population group and 37/115 (32%) in the comparator group were \geq 55 years of age. Of the 235 ITT patients, there were 141 (60%) males and 156 (66%) Caucasians across the two treatment groups. In addition, 176 (75%) of the ITT population had systemic inflammatory response synthem contrained by tabseline and 85 (36%) had surgical procedures within 30 days prior to onset of the S. *aureus* bacteremia. Eighty-nine patients (38%) had bacteremia caused by methiclin-resistant S. *aureus* (MRSA). Entry diagnosis was based on the modified Duke criteria and comprised 371 (16%) Definite, 144 (61%) Possible, and 54 (23%) Not Endocardits. Of the 37 patients with an entry diagnosis was based on the modified Duke) had a final diagnosis of intective. (61%) Possible, and 34 (23%) Not Endocarditis. Or the 37 patients with an entry of diagnosis of Definite Endocarditis, all (10%) had a final diagnosis of Inective endocarditis, and of the 144 patients with an entry diagnosis of Possible Endocarditis, 15 (10%) had a final diagnosis of Infective endocarditis as assessed by the Adjudication Committee. Of the 54 patients with an entry diagnosis of Not Endocarditis, 1 (2%) had a final diagnosis of infective endocarditis as assessed by the Adjudication Committee.

In the ITT population, there were 182 patients with bacteremia and 53 patients with infective endocardits as assessed by the Adjudication Committee, including 35 with right-sided endocardits and 18 with left-side endocardits. The 182 patients with bacteremia comprised 121 with complicated *S. aureus* bacteremia and 61 with uncomplicated *S. aureus* bacteremia.

uncomplicated 5. aureus bacteremia. Complicated bacteremis was defined as 5. aureus isolated from blood cultures obtained on at least 2 different calendar days, and/or metastatic foci of infection (deep tissue involvement), and classification of the patient as not having endocarditis according to the modified Duke criteria. Uncomplicated bacteremis was defined as 5. aureus isolated from blood culture(s) obtained on a single calendar day, no metastatic foci of infection, no infection of prosthect material, and classification of the patient, as not having endocarditis according to the modified Duke criteria. The definition of right-sided infective endocarditis (RIE) used in the clinical trial was Defined or Possible Endocarditis according to the modified Duke criteria and no echocardiographic evidence of predisposing pathology or active involvement of either the miral or aortic valve. Complicated RIE comprised patients who were not intravenous drug users, had a positive blood culture for MRAS, serum creatinine 2.2.5 mg/dL, or evidence of extrapulmonary sites of infection. Patients who were intravenous drug users, had a positive blood culture for MRAS. Serum creatinite 2.3 mg/dL, or evidence of extrapulmonary sites of infection. Patients who were intravenous drug users, had a positive blood culture for MRAS. Serum creatine 2.2.5 mg/dL, and were without evidence of extrapulmonary sites of infection were considered to have uncomplicated RIE. considered to have uncomplicated RIE.

The coprimary efficacy endpoints in the trial were the Adjudication Committee success The coprimary emcarcy endpoints in the that were the Adjucation Committee Success rates at the Test of Cure visit (6 weeks after the last treatment dose) in the TT and Per Protocol (PP) populations. The overall Adjudication Committee success rates in the ITT appulation were 44.2% (53/120) in patients treated with daptomycin for injection and 41.7% (48/115) in patients treated with comparator (difference = 2.4% (95% CI -10.2, 15.1)). The success rates in the PP population were 5.4.4% (43/79) in patients treated with daptomycin for injection and comparator (difference = 1.1% (95% CI -15.6, 17.8)).

Adjudication Committee success rates are shown in Table 17.

Table 17. Adjudication Committee Success Rates at Test of Cure in the S. aureus Bacteremia/Endocarditis Trial in Adult Patients (Population: ITT)

	Success Rate n/N (%)				
Population	Daptomycin for Injection 6 mg/kg	Comparator	Daptomycin for Injection *-Comparator (Confidence Interval)		
Overall	53/120 (44%)	48/115 (42%)	2.4% (-10.2, 15.1)†		

Baseline Pa	thogen

baseline radiogen			
Methicillin-susceptible S. aureus	33/74 (45%)	34/70 (49%)	-4.0% (-22.6, 14.6) [‡]
Methicillin-resistant S. aureus	20/45 (44%)	14/44 (32%)	12.6% (-10.2, 35.5)‡
Entry Diagnosis [§] Definite or Possible Infective Endocarditis	41/90 (46%)	37/91 (41%)	4.9% (-11.6, 21.4)‡
Not Infective Endocarditis	12/30 (40%)	11/24 (46%)	-5.8% (-36.2, 24.5) [‡]
Final Diagnosis			-,
Uncomplicated Bacteremia	18/32 (56%)	16/29 (55%)	1.1% (-31.7, 33.9)¶
Complicated Bacteremia	26/60 (43%)	23/61 (38%)	5.6% (-17.3, 28.6)¶
Right-Sided Infective Endocarditis	8/19 (42%)	7/16 (44%)	-1.6% (-44.9, 41.6)¶
Uncomplicated Right-Sided Infective Endocarditis	3/6 (50%)	1/4 (25%)	25.0% (-51.6, 100.0)¶
Complicated Right-Sided Infective Endocarditis	5/13 (39%)	6/12 (50%)	-11.5% (-62.4, 39.4)¶
Left-Sided Infective Endocarditis	1/9 (11%)	2/9 (22%)	-11.1% (-55.9, 33.6)¶

* Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicilin (i.e., nafcilin, oxacilin, cloxacilin, or flucloxacilin; 2 g IV q4h), each with initial low-dose gentamicin.

† 95% Confidence Interval

± 97.5% Confidence Interval (adjusted for multiplicity)

§ According to the modified Duke criteria⁵

1 99% Confidence Interval (adjusted for multiplicity)

Eighteen (18/120) patients in the daptomycin for injection arm and 19/116 patients in the comparator arm died during the trial. These comprise 3/28 daptomycin for injection-treated patients and 8/26 comparator-treated patients with endocarditis, as well as 15/92 daptomycin for injection-treated patients and 11/90 comparator-treated patients with bacteremics. Among patients with parsiting or relapsing 5. *aureus* infections, 8/19 daptomycin for injection-treated patients and 7/11 comparator-treated patients died. Overall, there was no difference in time to clearance of *S. aureus* bacteremia between daptomych for injection and comparator. The median time to clearance in patients with MSSA was 4 days and in patients with MRSA was 8 days.

MSSA was 4 days and in patients with MKSA was 8 days. Failure of treatment due to persisting or relapsing 5. *aureus* infections was assessed by the Adjudcation Committee in 19/120 (16%) daptomycin for injection-treated patients (12 with MKSA treated with vancomycin and 2 with MSSA treated with an anti-staphylococcal semi-synthetic pencillin). Among al failures, isolates from 6 daptomycin for injection-treated patients and 1 vancomycin-treated patient developed increasing MICs (reduced susceptibility) by central laboratory testing during or following therapy. Most patients who failed due to persisting or relapsing 5. *aureus* infection had deep-seated infection and did not receive necessary surgical intervention [see Warnings and Precautions (5.9)].

Pediatric Patients (1 to 17 Years of Age) with S. aureus Bacteremia

Pediatric Patients (1 to 17 Years of Age) with S. aurcus Bacteremia The pediatric S. aurcus bacteremins study was designed as a prospective multi-center, randomized, comparative trial to treat pediatric patients aged 1 to 17 years with bacteremia. Patients known to have endocarditis or pneumonia at baseline were excluded. Patients were enrolled in a stepwise approach into three age groups and given age-dependent doses of daptomycin once daily for up to 42 days. The different age groups and doses evaluated were as follows: Adolescents (12 to 17 years, n=14 patients) treated with daptomycin dosed at 7 mg/kg once daily. Children (7 to 11 years, n=19 patients) treated with daptomycin dosed at 21 mg/kg once daily. And patients 1 to <2 years of age were enrolled.

Patients were randomized 2:1 to receive daptomych or a standard of care comparator, which included intravenous therapy with vancomycin, semi-synthetic penciliin, first generation cephalosporin or clindamycin. Patients could switch to oral therapy after clinical improvement was demonstrated (no minimum IV dosing was required).

The primary objective of this study was to assess the safety of daptomycin. The clinical outcome was determined by resolution or improvement of symptoms at test-of-cure ($\rm IOC)$ visit, P to 14 days after the last does, which was assessed by the site level Binded

Of the 82 subjects randomized in the study, 81 subjects were treated with daptomycin Of the 82 subjects randomized in the safety population, and 73 had a proven S. aureus or comparator and included in the safety population, and 73 had a proven S. aureus bacteremia at Baseline. Of these, 51 subjects were randomized to the daptomycin group and 22 subjects were randomized to the comparator group. The mean duration of IV therapy was 12 days, with a range of 1 to 44 days. Forty-eight subjects switched to oral therapy, and the mean duration of oral therapy was 21 days. The clinical success rates determined at 7 to 14 days after last dose of therapy (IV and oral) (TOC visit) were 88% (45/51) for daptomycin and 77% (17/22) for comparator.

15 REFERENCES

Liu SL, Howard LC, Van Lier RBL, Markham JK: Teratology studies with daptomycin administered intravenously (iv) to rats and rabbits. Teratology 37(5):475, 1988.

Stroup JS, Wagner J, Badzinski T: Use of daptomycin in a pregnant patient with Staphylococcus aureus endocarditis. Ann Pharmacother 44(4):746-749, 2010.

Builrago MJ, Crompton JA, Bertolami S, North DS, Nathan RA. Extremely low excretion of daptomycin into breast milk of a nursing mother with methicillin-resistant Staphylococcus aureus pelvic inflammatory disease. Pharmacotherapy 2009;29(3):347-351.

 Klibanov OM, Vickery S, Nortey C: Successful treatment of infective panniculitis with daptomycin in a pregnant, morbidly obese patient. Ann Pharmacother 48(5):652-655. 2014

Li JS, Sexton DJ, Mick N, Nettles R, Fowler VG Jr, Ryan T, Bashore T, Corey GR. Proposed modifications to the Duke criteria for the diagnosis of infective endocarditis. Clin Infect Dis 2000; 30:633–638.

16 HOW SUPPLIED/STORAGE AND HANDLING

Daptomycin for injection is supplied as a sterile pale yellow to light brown lyophilized cake or powder in a single-dose 15 mL vial containing 500 mg of daptomycin: Package of 1 (NDC 16714-892-01).

Store original packagesa t refrigerated temperatures, 2⁺C t8⁺C (36⁺Fto 46⁺F),avoid excessive heat. Storage conditions for the reconstituted and diluted solutions are described in another section of the prescribing information [see Dosage and Administration (2.7)].

17 PATIENT COUNSELING INFORMATION

Allergic Reactions

Advise patientsthat allergic reactions, including serious skin, kidney, lung, or other organreactions, could occur and that these serious reactions require immediate treatment. Patients should report any previousallergic reactions to daptomycin [see Warnings and Precautions (5.1, 5.4, 5.5)].

Muscle Pain or Weakness (Myopathy and Rhabdomyolysis, Peripheral Neuropathy)

Advise patients to report muscle pain or weakness, especially in the forearms and lower legs, as well as tingling or numbness. [See Warnings and Precautions (5.2, 5.6)].

Cough, Breathlessness or Fever (Eosinophilic Pneumonia)

Advise patients to report any symptoms of cough, breathlessness, or fever. [See Warnings and Precautions (5.3).]

C. difficile-Associated Diarrhea (CDAD)

Advise patients that diarches is a common problem caused by antibacterials that usually ends when the antibacterials including daptomycin for injection, is discontinued. Sometimes after starting treatment with antibacterials including daptomycin for injection, patients can develop watery and bloody stools (with or without stomach cramps and fever), even as late as 2 or more months after having received the last dose of the antibacterial. If this occurs, patients should contact their physician as soon as possible. (5.8).]

Antibacterial Resistance

Patients should be counseled that antibacterial drugs, including daptomycin for injection,

should be used to treat bacterial infections. They do not treat viral infections (e.g., the common cold). When daptomycin for injection is prescribed to treat a bacterial infection, patients should be told that although it is common to feed better early in the course of therapy, the medication should be administered exactly as directed. Skipping doses or not completing the full course of therapy may (1) decrease the effectiveness of the immediate treatment and (2) increase the likelihood that bacteria will develop resistance and will not be treatable by daptomycin for injection or other antibacterial drugs in the future.

Rx Only Mfd. for: Northstar Rx LLC Memphis, TN 38141. Mfd. by: Gland Pharma Limited D.P. Pally - 500 043 INDIA. Revised: 03/2022

PACKAGE LABEL PRINCIPAL DISPLAY PANEL SECTION

Vial Label

Unvarnished Area Consists of: 2D Barcode, Lot Number, Expiry Date and Serial Number



Unvarnished Area Consists of: 2D Barcode, Lot Number, Expiry Date and Serial Number Carton Vial Label



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