HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use DAPTOMYCIN FOR INJECTION safely and effectively. See full prescribing information for DAPTOMYCIN FOR INJECTION. DAPTOMYCIN for injection, for infravenous use Initial U.S. Approval: 2003

RECEN	I MAJOR CHANGES	
Dosage and Administration	1 (2)	2/2022
Warnings and Precautions	Development of Drug-Resistant	Racteria

(5.12) 10/2021 --INDICATIONS AND USAGE-

Daptomycin for injection is a lipopeptide ar otibacterial indicated for the treatment of:

 Complicated skin and skin structure infections (cSSSI) in adult and pediatric patients (1 to 17 years of age) (1.1) and, Staphylococcus aureus boodstream infections (bacteremia),

adult patients including those with right-sided infective endocarditis, (1.2)Staphylococcus aureus bloodstream infections (bacteremia) in

pediatric patients (1 to 17 years of age). (1.3) Limitations of Use: · Daptomycin for injection is not indicated for the treatment of

pneumonia. (1.4)

Daptomycin for injection is not indicated for the treatment of

Deptomycin for injection is not indicated for the dealment of left-sided infective endocarditis due to S. aureus. (1.4) Daptomycin for injection is not recommended in pediatric patients vounger than one year of age due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) dbserved in neonatal dogs. (1.4)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of daptomycin for injection and other antibacterial drugs, daptomycin for injection should be used to treat or prevent infections that are proven or strongly suspected to be caused by bacteria. (1.5)

--DOSAGE AND ADMINISTRATION--Adult Patients

Administer to adult patients intravenously in 0.9% sodium

chloride, either by injection over a 2-minute period or by infusion over a 30-minute period. (2.1, 2.7) Recommended dosage regimen for adult patients (2.2, 2.4, 2.6):

Creatinine		Dosage	Regimen	
Clearance		cSSSI	S. aureus Bacteremi	
(CL _{CR})	Fo	or 7 to 14 days	For 2 to 6 weeks	
≥30 mL/min	4	4 mg/kg once	6 mg/kg once	
	e	very 24 hours	every 24 hours	
<30 mL/min, including	4	mg/kg once	6 mg/kg once	
hemodialysis and CAPD	e١	very 48 hours*	every 48 hours*	
*Administered following here	em	odialvsis on her	modialvsis davs.	

Pediatric Patients

• Unlike in adults, do NOT administer by injection over a two (2) minute period to pediatric patients. (2.1, 2.7) Administ

Administer to pediatric patients intravenously in 0.9% sodium chloride, by infusion over a 30- or 60-minute period, based on age. (2.1, 2.7)Recommended dosage regimen for pediatric patients (1 to 17

years of age) with cSSSI, based on age (2.3): Duration of therapy Dosage

, igo g. oup	Boodgo	Daradon of the
12 to 17	5 mg/kg once every 24	
years	hours infused over 30 minutes	
7 to 11	7 mg/kg_once_every_24	
years	hours infused over 30 minutes	Up to 14 days
2 to 6	9 mg/kg once every 24	Op to 14 days
years	hours infused over 60 minutes	
1 to less	10 mg/kg once every 24	
than 2 years	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 ents with renal impairment has not been established

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

FULL PRESCRIBING INFORMATION: CONTENTS*

- INDICATIONS AND USAGE 1.1 Complicated Skin and Skin Structure Infections (cSSSI) Staphylococcus aureus Bloodstream Infections (Bacteremia
- 1.2 Staphylococcus airedus biolosteram Intections (Bacteremia) in Adult Patients, Including those with Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates
 1.3 Staphylococcus auredus Bloodstream Infections (Bacteremia) in Pediatric Patients (1 to 17 Years of Age)
- 1.4 Limitations of Use

1.5 Usage 2 DOSAGE AND ADMINISTRATION

- Important Administration Duration Instructions Dosage in Adults for cSSSI
- 2.2 2.3 2.4 Dosage in Pediatric Patients (1 to 17 Years of Age) for cSSS Dosage in Adult Patients with Staphylococcus aureus Bloodstream Infections (Bacteremia), Including Those with
- Right-Sided Infective Endocarditis, Caused by Methicillin-Susceptible and Methicillin-Resistant Isolates 2.5 Dosage in Pediatric Patients (1 to 17 Years of Age) with
- Staphylococcus aureus Bloodstream Infections (Bactere 2.6 Dosage in Patients with Renal Impairment
- Preparation and Administration of Daptomycin for Injection
- Compatible Intravenous Solution for Re
- 3 DOSAGE FORMS AND STRENGTHS
- 4 CONTRAINDICATIONS 5 WARNINGS AND PRECAUTIONS
- 5.1 Anaphylaxis/Hypersensitivity Reactions
 5.2 Myopathy and Rhabdømyolysis
 5.3 Eosinophilic Pheumoria
 5.4 Drug Reaction with Eosinophilia and Systemic Symptoms

- 5.5 Tubulointerstitial Nephritis (TIN)
- Peripheral Neuropathy
 Potential Nervous System and/or Muscular System Effects in Pediatric Patients Younger than 12 Months

FULL PRESCRIBING INFORMATION I 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) caused by susceptible isolates of the following Gram-positive bacteria Staphylococcus aureus (including nethicillin-resistant isolates). Streptococcus pyogenes, Streptodoccus agalactiae, Streptococcus dysgalactiae subsp. equisimilis, and Enterococcus faecalis (vancomycin-susceptible isolates only).

.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 isolate 1.3 Staphylococcus aureus Bloodstream Infections (Bacterema) 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

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

There are two formulations of daptomycin that have differences concerning storage and reconstitution. Carefully follow the reconstitution and storage procedures in labeling. (2.7) Do not use in conjunction with ReadyMED® elastomeric infusion

pumps in adult and pediatric patients. (2.9) -DOSAGE FORMS AND STRENGTHS-

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

----CONTRAINDICATIONS-Known hypersensitivity to daptomycin (4)

(5.1)Myopathy and rhabdomyolysis: Monitor CPK levels and follow

muscle pain or weakness; if elevated CPK or myopathy occurs, consider discontinuation of daptomycin for injection. (5.2) Eosinophilic pneumonia: Discontinue daptomycin for injection and

consider treatment with systemic steroids. (5.3) Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS): Discontinue daptomycin for injection and institute appropriate treatment. (5.4) Tubulointerstitial Nephritis (TIN): Discontinue daptomycin for

injection and institute appropriate treatment. (5.5)

Peripheral neuropathy: Monitor for neuropathy and consider continuation (5.6) Potential nervous system and/or muscular system effects in

pediatric patients younger than 12 months: Avoid use of daptomycin

for injection in this age group. (5.7) *Clostridioides difficile*-associated diarrhea: Evaluate patients if diarrhea.occurs. (5.8)

Persisting or relapsing S. aureus bacteremia/endocarditis: Perform susceptibility testing and rule out sequestered foci of infection. (5.9)

Decreased efficacy was observed in adult patients with moderate baseline renal impairment. (5,10)

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

Adult S. aureus bacteremia/endocarditis Patients: The most common adverse reactions that occurred in ≥5% of S. aureus bacteremia/endocarditis patients receiving daptomycin for injection 6 mg/kg were sepsis, bacteremia, abdominal pain, chest pain, edema, pharyngolaryngeal pain, pruritus, increased sweating, insomnia, elevated CPK, and hypertension. (6.1) Pediatric S. aureus bacteremia Patients; The most common adverse reactions that occurred in 25% of pediatric patients

receiving daptomycin for injection were vomiting and elevated CPK. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Apotex Corp. at 1-800-706-5575 or FDA at 1-800-FDA-1088 or 1-800-706-5575 or nedwatch

5.8 Clostridioides difficile-Associated Diarrhea

- 5.9 Persisting or Relapsing S. aureus Bacteremia/Endocarditis 5.10 Decreased Efficacy in Patients with Moderate Baseline Renal Impairment
- 5.11 Increased International Normalized Ratio (INR)/Prolonged Prothrombin Time
- 5.12 Development of Drug-Resistant Bacteria 6 ADVERSE REACTIONS
- 6.1 Clinical Trials Experience 6.2. Post-Marketing Experience
- 7 DRUG INTERACTIONS
- 7.1 HMG-CoA Reductase Inhibitors 7.2 Drug-Laboratory Test Interaction 8 USE IN SPECIFIC POPULATIONS 9.1 Droamsour
- 8.1 Pregnancy
- 8.2 Lactation Pediatric Use

- 8.5 Geriatric Use 8.6 Patients with Renal Impairment 10 OVERDOSAGE
- 11 DESCRIPTION 12 CLINICAL PHARMACOLOGY
- 12.1 Mechanism of Action
 - 12.2 Pharmacodynamics 12.3 Pharmacokinetics
 - 12.4 Microbiology 13 NONCLINICAL TOXICOLOGY
 - 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 13.2 Animal Toxicology and/or Pharmacology
 - 14 CLINICAL STUDIES 14.1 Complicated Skin and Skin Structure Infections 14.2 S. aureus Bacteremia/Endocarditis

 - 15 REFERENCES
 - 17 PATIENT COUNSELING INFORMATION
 - *Sections or subsections omitted from the full prescribing information are not listed.

See 17 for PATIENT COUNSELING INFORMATION

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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 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 reconstitution.

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 administratio

Administer as an intravenous injection or infusion as described below:

2.8 Compatible Intravenous Solution for Reconstitution and Dilution

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

5.4 Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS)

Daptomycin for injection is compatible with 0.9% sodium chloride injection for reconstitution

npatible intravenous solution before and after infusion with daptomycin for injection

onstituted Daptomycin for injection can only be diluted with 0.9% sodium chloride injection

Intravenous Injection over a period of 2 minutes

Intravenous Infusion over a period of 30 minutes

Adults

chloride injection

portions of daptomycin for injection.

system into the daptomycin for injection solution.

5.1 Anaphylaxis/Hypersensitivity Reactions

3 DOSAGE FORMS AND STRENGTHS

5.2 Myopathy and Rhabdomyolysis

under refrigeration

2.9 Incompatibilities

Reactions (6.2)1

U/L (≥10× ULN).

5.3 Eosinophilic Pneumonia

5.5 Tubulointerstitial Nephritis (TIN)

5.8 Clostridioides difficile-Associated Diarrhea

antibacterial regimen may be required.

5.6 Peripheral Neuropathy

To imminize roaming, AVOID vigorous agriation or snaking of the vial during or after reconstitution.
 Remove the polypropylene flip-off cap from the daptomycin for injection vial to expose the central portion of the rubber stopper.
 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.
 Slowly transfer 10 mL of 0.9% sodium chloride injection through the center of the rubber stopper into the daptomycin for injection vial, polytical to transfer 10 mL of 0.9% sodium chloride injection through the center of the rubber stopper into the daptomycin for injection vial, polytical to transfer 10 mL of 0.9%.

bointing the transfer needle toward the wall of the vial. It is recommended that a beveled sterile transfer needle that is 21 gauge or smaller in diameter, or a needleless device is used, pointing the transfer needle thward the wall of the vial. 5. 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.

Slowly remove reconstituted liquid (50 mg daptomycin/mL) from the vial using a beveled sterile needle that is 21 gauge or smaller in diameter

For intravenous (IV) injection over a period of 2 minutes in adult patients **only**: Administer the appropriate volume of the reconstituted daptomycin for injection (condentration of 50 mg/mL).

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)
 Intravenous Infusion over a period of 30 or 60 minutes
 Unlike in Adults, do NOT administer daptomycin for injection 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/mL) should be further diluted, using aseptic technique, into an intravenous infusion bag containing 25 mL of 0.9% sodium chloride injection. The infusion rate should be maintained at 0.42 mL/minute 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 aseptic technique, into a 50 mL IV 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

In-Use Storage Conditions for Daptomycin for Injection Once Reconstituted in Acceptable Intravenous Diluents Stability studies have shown that the reconstituted solution is stable in the vial for 12 hours at room temperature and up to 48 hours if stored under refrigeration at 2°C to 8°C (36 to 46°F).

The diluted solution is stable in the infusion bag for 12 hours at room temperature and 48 hours if stored under refrigeration. The combined

storage time (reconstituted solution in vial and diluted solution in infusion bag) should not exceed 12 hours at room temperature or 48 hours

Daptomycin for injection should not be used in conjunction with Read/MED® elastomeric infusion pumps. Stability studies of daptomycin for injection solutions stored in ReadyMED® elastomeric infusion pumps identified an impurity (2- mercaptobenzothiazole) leaching from this pump

Because only limited data are available on the compatibility of daptomycin for injection with other IV substances, additives and other because only initial data are available of the comparising of dependential information bags, or infused simultaneously with deptomycin for injection single-does vials or infusion bags, or infused simultaneously with deptomycin for injection through the same IV line. If the same IV line is used for sequential infusion of different drugs, the line should be flushed with a

For Injection: 500 mg daptomycin as a sterile, pale yellow to light brown lyophilized powder for reconstitution in a single-dose vial. 4 CONTRAINDICATIONS

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

Anaphylaxis/hypersensitivity readions 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

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 dista 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

In Phase 1 studies and Phase 2 clinical trials in adults CPK elevations appeared to be more frequent when dantomycin for injection was dosed more than once daily. Therefore, daptomycin for injection should not be dosed more frequently than once a day. Daptomycin for injection should be discontinued in patients with unexplained signs and symptoms of myopathy in conjunction with CPK

elevations to levels >1,000 U/L (~5× ULN), and in patients without reported symptoms who have marked elevations in CPK, with levels >2,000

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

5.3 Eosinophilic Pneumonia Eosinophilic pneumonia has been reported in patients receiving daptomycin for injection [see Adverse Relactions (6.2)]. In reported cases associated with daptomycin for injection, patients developed fever, dyspnea with hypoxic respiratory insufficiency, and diffuse pulmonary infiltrates or organizing pneumonia. In general, patients developed eosinophilic pneumonia 2 to 4 weeks after starting daptomycin for injection

and improved when daptomycin for injection was discontinued and stepid therapy was initiated. Recurrence of eosinophilic pneumonia upon re-exposure has been reported. Patients who develop these signs and symptoms while receiving daptomycin for injection should undergo prompt medical evaluation, and daptomycin for injection should be discontinued immediately. Treatment with systemic steroids is recommended.

DRESS has been reported in post-marketing experience with daptomycin for injection [see Adverse Reactions (6.2)]. Patients who develop

skin rash, fever, peripheral eosinophilia, and systemic organ (for example, hepatic, renal, pulmonary) impairment while receiving daptomycin for injection should undergo medical evaluation. If DRESS is suspected, discontinue daptomycin for injection promptly and institute appropriate

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.

Cases of peripheral neuropathy have been reported during the daptomycin for injection postmarketing experience Isee Adverse Reactions

(c.2)). Therefore, physicians sholid be alert to signs and symptoms of peripheral neuropathy in patients receiving daptomycin for injection Monitor for neuropathy and consider discontinuation.

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

Clostridiolas 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 collisi [see Adverse Reactions (6.2)]. Treatment with antibacterial agents alters the normal flora of the colon, leading to overgrowth of *C. difficile*.

C. difficile produces toxins A and p, which control to the development of Cabb. Hypertoxin-producing strains of C. difficile cabe 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 confirméd, 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 elisioathuic directed.

Patients with persisting or relapsing *S. aureus* bacteremia/endocarditis or poor clinical response should have repeat blood cultures. If a blood culture is positive for *S. aureus*, minimum inhibitory concentration (MIC) susceptibility testing of the isolate should be performed using a standardized procedure, and diagnostic evaluation of the patient should be performed to rule out sequestered foci of infection. Appropriate

surgical intervention (e.g., debridement, removal of prosthetic devices, valve replacement surgery) and/br consideration of a change in

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

1.4 Limitations of Us

Daptomycin for injection is not indicated for the treatment of pneumonia. Daptomycin for injection is not indicated for the treatment of left-sided infective endocarditis due to S. aureus. The clinical trial of daptomycin por 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 Studies (14.2)] Daptomycin for injection has not been studied in patients with prosthetic valve endocarditis.

Daptomycin for injection is not recommended in pediatric patients younger than 1 year of age due to the risk of potential effects on muscular. neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs [see Warnings and Precautions (5.7) and nclinical Toxicology (13.2)].

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

<u>Adults</u>

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 influsion over a thirty (30) minute period [see Dosage and Administration (2.2._ 2.4, 2.7)j

Pediatric Patients (1 to 17 Years of Age)

Unlike in adults, do NOT administer daptomycin for injection by injection over a two (2) minute 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

 <u>Pediatric Patients 1 to 6 years of Age:</u> 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 cSSS

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

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

2.5 Dosage in Pediatric Patients (1 to 17 fears of Age) for cosol The recommended dosage regimens based on age for pediatric patients with cSSSI are shown in Table 1. Administer daptomycin for injection 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	Lin to 14 days
2 to 6 years	9 mg/kg once every 24 hours infused over 60 minutes	Up to 14 days
1 to less than 2 years	10 mg/kg once every 24 hours infused over 60 minutes]
*Recommended dosage regi	men 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. 2.4 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 (bacterimia) 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 Bacter

	Based on Age		
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	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

Adult Patients:

No dosage adjustment is required in adult patients with creatinine clearance (CL_{CR}) greater than or equal to 30 mL/min. The recommended To be a set of the se [see Warnings and Precautions (5.2, 5.10), Use in Specific Populations (8.6), and Clinical Pharmacology (12.3)] Table 3: Recommended Dosage of Dapto cin for Injection in Adult Pa

Creatinine Clearance		Dosage Regimen in Adults			
(CL _{qR})		cSSSI	S.	aureus Bloodstream 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 hemod alysis days.					

dosage regime 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

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

5.9 Persisting or Relapsing S. aureus Bacteremia/Endocarditis

5.10 Decreased Efficacy in Patients with Moderate Baseline Renal Impairment Limited data are available from the two Phase 3 complicated skin and skin structure infection (cSSSI) trals regarding clinical efficacy of daptomycin for injection treatment in adult patients with creatinine clearance (CL_{cR}) <50 mL/min; only 31/534 (6%) patients treated with daptomycin for injection in the intent-to-treat (ITT) population had a bageline CL_{cR} <50 mL/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)

CL _{CR}		Success Rate n/N (%)		
UK .	Daptomycin for Injection 4 mg/kg every 24h		Comparator	
50-70 mL/min	25/38 (6 <mark>6</mark> %)		30/48 (63%)	
30-<50 mL/min	7/15 (47%)		20/35 (57%)	
a subgroup analysis of the ITT of	pulation in the Phase 3 S aureus bacteremia/endor	parditic trial clinical	success rates as determined by a	

treatment-blinded Adjudication Committee [see Clinical Studies (14.2)], in the daptomycin for injection-treated adult patients were lower in patients with baseline CL_{CR} <50 mL/min (see Table 5). A decrease of the magnitude shown in Table 5 was not observed in comparator-treated patients. Table 5: Adjudication Committee Clinical Success Rates at Test of Cure by Baseline Creatinine Clearance and Treatment Subgroup in the S. aureus Bacteremia/Endocarditis Trial in Adult Patients (Population: ITT)

Baseline	n/N (%)					
CL _{CR}	Daptomyc	in for Injection 6 mg/kg every 24h	4h Comparator			
	Bacteremia	Right-Sided Infective Endocarditis	Bacteremia	Right-Sided Infective Endocardit	is	
>80 mL/min	30/50 (6 <mark>0%)</mark>	7/14 (50%)	19/42 (45%)	5/11 (46%)		
50-80 mL/min	12/26 (4 <mark>6%)</mark>	1/4 (25%)	13/31 (42%)	1/2 (50%)		
30<50 mL/min	2/14 (14%)	0/1 (0%)	7/17 (41%)	1/1 (100%)		
onsider these data when selecting antihacterial 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 data (my), roomalized Ratio (UNR) when certain recombinant thromboplastin reagents are utilized for of prothrombin time (PT) and elevation of International Normalized Ratio (UNR) when certain recombinant thromboplastin reagents are utilized for the assay [see Drug Interactions (7.2)].

5.12 Development of Drug-Resistant Bacteria

scribing daptomycin for injection in the absence of a proven or strongly suspected bacterial infection or a prophylactic indication is unlikely rovide 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)1

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

head of binn benefation in the structure in fraction (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 (3.0%) patients. The rates of the most common adverse reactions, organized by body system, observed in adult patients with cSSSI (receiving 4 mg/kg

Table 6: Incidence of Adverse Reactions that Occurred in ≥2% of Adult Patients in the Daptomycin for Injection Treatment Group

	Adult	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		

Diarrhea	18 (7.0)	7 (5.3)
Vomiting	7 (2.7)	1 (0.8)
Abdominal Pain	5 (2.0)	0
Skin and subcutaneous tissue disorders		
Pruritus	8 (3.1)	2 (1.5)
General disorders and administration site conditions		
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)

Drug-related adverse reactions (possibly or probably drug-related) that occurred in <1% of adult patients receiving daptomycin for injection in

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

In the S. aureus bacteremia/endocarditis trial involving adult patients, dapt days of the second sec

and 0/115 comparator-treated patients. Comparator-treated patients received dual therapy that included initial gentamicin for 4 days. Infections were reported during treatment and during early and late follow-up. Gram-negative infections included cholangitis, alcoholic pancreatitis, sternal osteomyelitis/mediastinitis, bowel 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, aureu

acteremia/and oncardinitis (receiving 6 mg/kg daptomycin for injection) are displayed in Table 7. Table 7: Incidence of Adverse Reactions that Occurred in ≥5% of Aquit Patients in the Daptomycin for Injection Treatment Group

and ≥ the Comparator Treatment Group in the S. aureus Bacteremia/Endocarditis Trial

Comparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin; 2 g IV q4h), each with initial low-dose gentamicin. The following reactions, not included above, were reported as possibly or probably drug-related in the daptomycin for injection-treated group:

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, alanin

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 treatment of CAP in patients experiencing these adverse events [see Indications]

Laboratory Changes in Adults Complicated Skin and Skin Structure Infection Trials in Adults In Phase 3 cSSSI trials of adult patients receiving daptomycin for injection at a dose of 4 mg/kg, elevations in ¢PK 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, 1 (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

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

% n

All Adult Patients

390 91.1

40 8.9

21 4.8

6 1.5

6 0.4

2 0.2

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

mparator: vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin

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 inhibitor. Three

of these 11 daptomycin for injection-treated patients discontinued therapy due to CPK elevation, while the one comparator-treated patient did not

Complicated Skin and Skin Structure Infection Trial in Pediatric Patients The safety of daptomycin for injection was evaluated in one clinical trial (in cSSSI), which included 256 pediatric patients (1 to 17 years of age)

Treated with intravenous daptomycin for injection and 133 patients treated with comparator agents. Patients were given age-dependent doses once daily for a treatment period of lup 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 Clinical Studies (14)]. Patients treated with daptomycin for injection were (51%) male, (49%) female and (46%) Caucasian and (32%) Asian. Adverse Reactions Leading to Discontinuation

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

Blood and Lymphatic System Disorders: eosinophilia, lymphadenopathy, thrombocythemia, thrombocytopenia Cardiac Disorders: atrial fibrillation, atrial flutter, cardiac arrest Ear and Labyrinth Disorders: tinnitus

aminotransferase increased, aspartate aminotransferase increased, prothrombin time prolonged

4 mg/kg (N=430) % n

Adult Patients n (%)

Comparator[†] (N=116)

3 (3%)

0 (0%)

4 (3%)

7 (6%)

5 (4%)

2 (2%)

6 (5%)

0-(0%)

8 (7%)

1 (1%)

3 (3%)

Adult Patients with Normal CPK at Baseline

341 91.1

4 1.0

1 0.0

3.1

0.0

Comparator* (N = 133)

n (%)

33 8.9

14

% n

357

35

12

4

0

4 mg/kg (N=374) % n

Daptomycin for Injection 6 mg/kg (N=120)

6 (5%)

7 (6%)

8 (7%)

8 (7%)

10 (8%)

7 (6%)

6 (5%)

11 (9%)

8 (7%)

7 (6%)

Daptomycin for Injection Comparator* (N=459) Daptomycin for Injection Comparator* (N=392

41

22

7

2

nycin for injection was discontinued in 7/256 (2.7%) patients due to an adverse reaction, while comparator was

Daptomycin for Injection (N = 256)

n (%)

418 91.2

1 0.2

8.8

3.7

1.1

1.1

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

the cSSSI trials are as follows:

eakness, arthralgia

Adverse Reaction

Sepsis NOS

Bacteremia

Chest pain

Pruritus

Sweating

Insomnia

Investigation

Edema NOS

Infections and infestations

Gastrointestinal disorder

Pharyngolaryngeal pain

Psychiatric disorders

Vascular disorders

Hypertension NOS

*NOS, not otherwise specified.

Eve Disorders: vision blurred

Other Trials in Adults

and Usage (1.4)].

Change in CPK

Maximum Value

significantly different.

4 to 12 g/day IV in divided doses)

n the cSSSI study, daptomycin fo discontinued in 7/133 (5.3%) patie

Most Common Adverse Reactions

Table (

Adverse Reaction

Gastrointestinal disorders

No Increase

Abdominal pain NOS

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

Cardiovascular System: supraventridular arrhythmia

S. aureus Bacteremia/Endocarditis Trial in Adults

Nervous System: vertigo, mental status change, paresthesia Special Senses: taste disturbance, eye irritation

General disorders and administration site conditions

Respiratory, thoracic and mediastinal disorders

Skin and subcutaneous tissue disorders

Blood creatine phosphokinase increased

Metabolism and Nutrition Disorders: appetite decreased NOS Musculoskeletal and Connective Tissue Disorders: myalgia

Renal and Urinary Disorders: proteinuria, renal impairment NOS Skin and Subcutaneous Tissue Disorders: pruritus generalized, rash vesicular

90.7

1.4

>1× ULN[†] 9.3

>2× ULN 4.9

>4× ULN 1.4

>10× ULN 0.5

ontinue therapy [see Warnings and Precautions (5.2)].

>5× ULN

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

. aureus Bacteremia/Endocarditis Trial in Adults

Clinical Trial Experience in Pediatric Patients

Nervous System Disorders: dyskinesia, paresthesia

Psychiatric Disorders: hallucination NOS

Therapy in the cSSSI adult trials.

*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 patient

Table 9: Adverse Reactions that Occurred in ≥2% of Pediatric Patients in the Daptomycin for Injection Treatri Than or Equal to the Comparator Treatment-Arm in the cSSSI Pediatric Trial

S. aureus Bacteremia Trial in Pediatric Patients S. aureus Bacteremia Ina in Pediatric Patients The safety of daptomycin for injection was evaluated in one clinical trial (in *S. aureus* bacteremia), which treated 55 pediatric patients with intravenous daptomycin for injection and 26 patients with comparator agents. Patients were given age-dependent doses once daily for a treatment period of up to 42 days (mean duration of IV 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 for injection vere (69%) male and (31%) female. No patients 1 to <2 years of age were enrolled.

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 ≥5% of Pediatric Patients in the Daptomycin for Injection

	realment-Arm and oreater than of Equal to the comparator treatment-Arm in the realatic bacterenna than				
		Daptomycin for Injection (N = 55)	Comparator (N = 26)		
	Adverse Reaction	n (%)	n (%)		
1	Gastrointestinal disorders				

Gastrointestinal disorders		
Vomiting	6 (10.9)	2 (7.7)
Investigations		
Blood CPK increased	4 (7.3)	0

*Comparators included intravenous therapy with either vancomycin, cefqzolin, or an anti-staphylococcal semj-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 always possible to reliably estimate their frequency or establish a causal elationship to drug exposure

Blood and lymphatic system disorders: anemia, thrombocytopenia General and administration site conditions: pyrexia

nmune System Disorders: anaphylaxis; hypersensitivity reactions, including angioedema, pruritus, hives, shortness of breath, difficulty swallowing, truncal erythema, and pulmonary eosinophilia [see Contraindications (4) and Warnings and Precautions (5.1)] Infections and Infestations: Clostridioides difficile-associated diarrhea [see Warnings and Precautions (5.8)]

aboratory Investigations: platelet count decreased

Musculoskeletal 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 Mediastipal 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: serious skin reactions, including drug reaction with eosinophilia and systemic symptoms (DRESS), vesiculobullous 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 (5.4)] 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: vis I disturbances 7 DRUG INTERACTIONS

7.1 HMG-CoA Reductase Inhibitor

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)].

However, inhibitors of HMG-CoA reductase may cause myopathy, which is manifested as muscle pain or weakness associated with elevated levels of creatine phosphokinase (CPK). In the adult Phase 3 *S. aureus* bacteremia/endocarditis trial, some patients who received prior or concomitant treatment with an HMG-CoA reductase inhibitor developed elevated CPK *[see Adverse Reactions (6.1)]*. Experience with the coadministration of HMG-CoA reductase inhibitors and daptomycin for injection in patients is limited; therefore, consideration should be given to suspending use of HMG-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 thromboplastin reagents are utilized for the assay. The possibility of an erroneously elevated PT/INR result due to interaction with a recombinant thomboplastin 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 provide PT/INR pT/INR result in a patient being treated with an abnormal with an abnormal with the provide 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 provide PT/INR pT/INR value obtained to the prior to the

evaluating PT/INR utilizing an alternative method.

2. Evaluate for other causes of abnormally elevated PT/INR results.

Product name: D	Daptonmycin for Injection	Strength: 500mg		
Target Territory	: US	Customer Name: APOTEX		
Code Number: 3	34120043611C	Dimension: 418*515mm		
Critical contents	need to be reviewed: forma	it, contents, dimension, co	lor, barcode, logo, etc	
R	Reviewed by	Signature	Date	
	Production & Technology Dept.			
	Production Workshop			
QILU	International Business Dept.			
	QA			
CUSTOMER	QA/RA			

daptomycin for injection) are displayed in Table 6.

8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

Risk Summary

Limited published data on use of daptomycin for injection in pregnant women are insufficient to inform a drug-associated risk for major birth defects and miscarriage. In animal reproduction studies performed in rats and rabbits daptomycin was administered intravenously during organogenesis at doses 2 and 4-times, respectively, the recommended 6 mg/kg human dose (on a body surface area basis). No evidence of adverse developmental outcomes was observed.

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 2-4% and 15-20%, respectively.

Data Animal Data

In pregnant rats, daptomych 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 decreased 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 pody surface area). In pregnant rabbits, daptom/cin was administered intravenously at doses of 5, 20, or 75 mg/kg/day 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 dose of 75 mg/kg/day, a dose approximately 4-fold higher than in humans at the maximum recommended dose of 6mg/kg (based on body surface area). In a combined fertility and pre/postnatal development study, daptomycin was administered intravenously to female rats at doses of 2, 25, 75 mg/kg/day from 14-days pre-mating through lactation/postpartum 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 milk 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 milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for daptomycin for injection and any potential adverse effects on the breastfed infant from daptomycin for injection or from the underlying maternal condition. 8.4 Pediatric Use

The safety and effectiveness of daptomycin for injection in the treatment of cSSSI and S, aureus bloodstream infections (bacteremia) have been established in the age groups 1 to 17 years of age. Use of daptomycin for injection 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, efficacy and PK studies in pediatric patients with cSSSI and S. aureus bloodstream infections [see Adverse Reactions (6.1), Clinical Pharmacology

and PK studies in pediatric patients with CSSSI and S. aureus bioloustream intections [see Auverse neactions [s. r], Clinical r narmacology (12.3), and effectiveness in pediatric patients below the age of one year have not been established. Avoid use of daptomycin for injection in pediatric patients younger than one year of age due to the risk of potential effects on muscular, neuromuscular, and/or nervous systems (either peripheral and/or central) observed in neonatal dogs [see Warnings and Precautions (5.7) and Noncline(al Toxicology (13.2)]. Daptomycin for injection is not indicated in pediatric patients with renal impairment because dosage has not been established in these patients. ptomycin for injection 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 clinical trials of complicated skin and skin structure infections (cSSSI), 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 trial 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 cSSSI 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 creatinihe clearance (CL_{CR}) ≥30 mL/min [see Dosage and Administration (2.6) and Clinical Pharmacology (12.3)].

8.6 Patients with Renal Impairment

Daptomycin is eliminated plimarily by the kidneys; therefore, a modification of daptomycin for injection dosage interval is recommended fo baltomydni s with $CL_{CR} < 30$ mL/min, including patients receiving hemodialysis or continuous ambulatory peritoneal 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 for injection 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 filtration. Daptomycin 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 injection contains daptomycin, a cyclic lipopeptide antibacterial agent derived from the fermentation of Streptomyces roseosporus. The chemical name is N-decanoyl-L-tryptophyl-D-asparaginyl-L-aspartyl-L-threonylglycyl-L-ornithyl-L-aspartyl-D-alanyl-L-aspartylglycyl-D-seryl-three-3-methyl-L-glutamyl-3-anthraniloyl-L-alanine E1-lactone. The chemical structure is:



The empirical formula is C₂₇H₁₀₁N₁₇O₂₆; the molecular weight is 1620.67. Daptomycin for injection is supplied in a single- dose vial as a sterile reservative-free, pale-yellow tellight brown, lyophilized cake 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 based on animal models of medication, the animatorbase of adjustering of appointene ppear of concentration with the models of medication and concentration a

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 24h to healthy young adults are summarized in Table 11. Table 11: Mean (SD) Daptomycin Pharmacokinetic Parameters in Healthy Adult Volunteers at Steady-State

Dose*†		Pha	armacokinetic Paramet	ers⁺	
(mg/kg)	AUC _{₀-24} (mcg·h/mL)	t _{1/2} (h)	V _{ss} (L/kg)	CL _T (mL/h/kg)	C _{max} (mcg/mL)
4 (N=6)	494 (75)	8.1 (1.0)	0.096 (0.009)	8.8 (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)	9.0 (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)	9.0 (2.8)	183.7 (25.0)

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

Daptomycin for injection was administered by IV infusion over a g0-minute period. Doese of daptomycin for injection in excess of 6 mg/kg have not been approved. ‡AUC₀₋₂₄ area under the concentration-time curve from 0 to 24 hours; t_{1/2}, elimination half-life; V_{SS}, volume of distribution at steady-state; CL_T, total plasma clearance; C_{mail}, maximum plasma 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 of 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.

Daptomycin for Injection Administered over a 2-Minute Period in Adults Following IV administration 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 (Sp) steady-state systemic exposure (AUC) values were 475 (71) and 701 (82) mcg-h/mL, 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 IV administered over a 30-minute period in a separate study, steady-state C_{max} values were simulated for daptomycin for injection 4 and 6 mg/kg IV administered over a 2-minute period. The simulated mean (SD) steady-state C_{max} values were 77.7 (8.1) and 116.6 (12.2) mcg/mL, respectively Distribution

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-e 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 nt of daptomycin for injection dosage is warranted in obese patients.

Pediatric Patients The pharmacokinetics of daptomycin in pediatric subjects was evaluated in 3 single-dose pharmacokinetic studies. In general, body weight-normalized total body glearance 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.

A study was conducted to assess safety, efficacy, and pharmacokinetics of daptomycin in pediatric patients (1 to 17 years old, inclusive) with cSSSI caused by Gram-positive pathogens. Patients were enrolled into 4 age groups [see Clinical Studies (14.1)], and intravenous daptomycin for injection doses of 5 to 10 mg/kg once daily were administered. Following administration of multiple doses, daptomycin exposure (AUC_{ss} and C_{max,ss}) was similar across different age groups after dose adjustment based on body weight and age (Table 13). Table 13: Mean (SD) Daptomycin Population Pharmacokinetic Parameters in cSSSI Pediatric Patients

Age Pharmacokinetic Parameters											
	~9°		Infusion Duration (min)		.UC _{ss} g∙h/mL)	t _{1/2} (h)	V _{ss} (mL)	CL _T (mL/h/kg)	C _{max,ss} (mcg/m	
12 to 17	years (N=6)	5	30	434	4 (67.9)	7.1 (0.9)	8200 (3	250)	11.8 (2.15)	76.4 (6.75	j)
7 to 11	years (N=2)	7	30		543*	6.8*	447()*	13.2*	92.4*	
2 to 6	/ears (N=7)	9	60	45	2 (93.1)	4.6 (0.8)	2750 (8	332)	20.8 (4.29)	90.3 (14.0))
1 to less that	n 2 years (N=27)	10	60	46	2 (138)	4.8 (0.6)	1670 (4	146)	23.1 (5.43)	81.6 (20.7	')

 $\label{eq:scalar} \begin{array}{l} \mathsf{AUC}_{ss,} \text{ area under the concentration-time curve at steady state; } \mathsf{CL}_{\tau_1} \text{ clearance normalized to body weight} \\ \mathsf{V}_{ss,} \text{ volume of distribution at steady state; } \mathsf{t}_{v_n} \text{ terminal half-life} \\ \end{tabular}$

A study was conducted to assess safety, efficacy, and pharmacokinetics of daptomycin in pediatric patients with S. aureus bacteremia A study was conducted to assess safety, encacy, and pharmaconneutos or deploingen in periating with 3. *adverteen baretis bacterenia* 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 (AUC_{ss} and C_{max,ss}) was similar across different age groups after dose adjustment based on body weight and age (Table 14).

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

		, , ,					
Ago			Pharmacok	inetic Param	eters		
Age	Dose (mg/kg)	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)	12	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; CL₁, clearance normalized to body weight; V_{ss}, volume of distribution at steady state; t₁₆, 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 AUCes

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 oncedaily.

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 is 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 g IV, administered over a 30-minute period, the C_{max} and AUC_{0-s} of daptomycin were not significantly altered by aztreonam

In a study in which 6 healthy adult males received a single dose of daptomycin for injection 2 mg/kg IV, tobramycin 1 mg/kg IV, and both in combination, administered over a 30-minute period, the mean C_{max} and AUC_{0-} of daptomycin were 12.7% and 8.7% higher, respectively, when daptomycin for injection was coadministered with tobramycin. The mean C_{max} and AUC_{0-} of tobramycin were 10.7% and 6.6% lower, respectively, when tobramycin between daptomycin for injection between daptomycin and tobramycin with a clinical dose of daptomycin 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 pharmacokinetics of either drug and did not significantly alter the INR (International Normalized Ratio).

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 onde 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 alter the C_{max} or AUC_{0-*} 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 bacterial. The *in vitro* spectrum of activity of daptomycin encompasses most clinically relevant Gram-positive pathogenic bacteria.

Daptomycin 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 *S. 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 aminoglycosides, β-lactam antibacterials, and rifampin have been shown against some isolates of staphylococci (including some methicillin-resistant isolates) and enterococci (including some vancomycin-resistant isolates).

Complicated Skin and Skin Structure Infection (cSSSI) Trials in Adults The emergence of daptomycin hon-susceptible isolates occurred in 2 infected patients across the set of Phase 2 and pivotal Phase 3 clinical trials of cSSSI in adult 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 faecalis was isolated from a patient with an infected chronic decubitus ulcer who was enrolled in a salvage trial

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

In subsequent clinical trials in adult 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/endocarditis trial [see Clinical Studies (14.2)]. An E. faecium was isolated from a patient in a tant 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)
- Streptococcus agalactiae
- Streptococcus dysgalactiae subsp. equisimilis

Streptococcus pyogenes The following *in vitro* data are available, but their clinical significance is unknown. At least 90 percent of the following bacteria exhibit an *in vitro* minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for daptomycin against isolates of similar genus or organism group. However, the efficacy of daptomycin in treating clinical infections caused by these bacteria has not been established in quate and well-controlled clinical trials

Gram-Positive Bacteria

- Corynebacterium jeikeium
- Enterococcus faecalis (vandomvcin-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

treated with daptomycin for injection and 76.7% (158/206) in patients treated with comparator drugs. In study 9901, clinical success rates in the ITT population were 80.4% (217/270) in patients treated with daptomycin for injection and 80.5% (235/292) in patients treated with comparator drugs. Clinical success rates in the CE population were 89.9% (214/238) in patients treated with daptomycin for injection and

Comparator drugs. Comparator drugs. The success rates by pathogen for microbiologically evaluable patients are presented in Table 16. Table 16: Clinical Success Rates by Infecting Pathogen in the cSSSI Trials in Adult Patients (Population: Microbiologically

= (4,4,4,5,6)							
Pathogen			Success	Rate n <mark>/</mark> N ((%)		
-		Dapt	omycin for Injection	1	Comparator*		
Methicillin-susceptible Staphyloco	ccus aureus (MSSA)†		170/198 (86%)		180/207 (87%)		
Methicillin-resistant Staphylococcu	is 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 d12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillir 4 to 12 g/day IV in divided do ned by the central laboratory

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

The cSSSI 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 into the study. Patients known to have bacteremia, osteorney entities, 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 for injection 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 for injection (n=113), Children (7 to 11 years) treated with 7 mg/kg of daptomycin for injection (n=113), Children (2 to 6 years) treated with 9 mg/kg of daptomycin for injection (n=125) and Infants (1 to <2 years) treated with 0 mg/kg (n= 45).

Patients were randomized 2:1 to receive daptomycin for injection or a standard of care (SOC) comparator, which included intravenous therapy

Patients were randomized 2:1 to referve daptomycin for injection or a standard of care (SOC) comparator, which included intravenous therapy with either vancomycin, clindamycin, or 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 for injection. 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), 7-14 days after the last dose. Investigator observed outcomes were verified in a blinded fashion. Of the 396 subjects randomized in the study, 389 subjects were treated with daptomycin for injection or comparator and included in the ITT population. Of these, 257 subjects were randomized to the daptomycin for injection 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 7-14 days after last dose of therapy (IV and oral) (TOC visit) were 88% (227/257) for daptomycin for injection 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 bacteremia was demonstrated in a randomized, within 2 calendar days prior to the first dose 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 penicillin 2 g IV q4h (nafcillin, oxacillin, cloxacillin, 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, intravascular foreign material that was not planned for removal within 4 days after the first dose of study medication, severe neutropenia, known osteomyelitis, polymicrobial bloodstream infections, creatinine clearance <30 mL/min, and pneumonia were excluded.

Upon entry, patients were classified for likelihood of endocarditis using the modified Duke criteria (Possible, 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 by a treatment-blinded Adjudication Committee, using protocol-specified clinical definitions and a composite primary efficacy endpoint (clinical and microbiological success) at the Test of Cure visit.

A total of 246 patients ≥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 comparator (62 received an anti-staphylococcal semi-synthetic penicillin and 53 received vancomycin). Thirty-five patients treated with an anti-staphylococcal semi-synthetic penicillin received vancomycin initially for 1 to 3 days, pending final susceptibility results for the S. aureus isolates. The median age among the 235 patients in the ITT population was 53 years (range: 21 to 91 years); 30/120 (25%) in the daptomycin for injection group and 37/115 (32%) in the comparator group were ≥65 years of age. Of the 235 [TT 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 syndrome (SIRS) at baseline 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 methicillin-resistant *S. aureus* (MRSA). Entry diagnosis was based on the modified Duke criteria and comprised 37 (16%) Definite, 144 (61%) Possible, and 54 (23%) Not Endocarditis. Of the 37 patients with an entry diagnosis of Definite Endocarditis, all (100%) had a final diagnosis of infective 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 Indocarditis, 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 endocarditis as assessed by the Adjudication Committee, including 35 with right-sided endocarditis and 18 with left-sided endocarditis. The 182 patients with bacteremia comprised 121 with

complicated S. aureus bacteremia and 61 with uncomplicated S. aureus bacteremia.

Complicated bacterenia was defined as S. 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 bacterenia was defined as S. aureus isolated from blood culture(s) obtained on a single calendar day, no metastatic foci of infection, no infection of prosthetic 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 Definite or Possible Endocarditis according to the modified Duke criteria and no echocardiographic evidence of predisposing pathology or active involvement of either the mirral or aortic valve. Complicated RIE comprised patients who were not intravenous drug users, had a positive blood culture for MRSA, serum creatinine ≥2.5 mg/dL, or evidence of extrapulmonary sites of infection. Patients who were intravenous drug users, had a positive blood culture for methicillin-susceptible S. aureus (MSSA), had serum creatinine <2.5 mg/dL, and were without evidence of extrapulmonary sites of infection were considered to have uncomplicated RIE

The coprimary efficacy endpoints in the trial were the Adjudication Committee success rates at the Test of Cure visit (6 weeks after the last treatment does in the ITT and Per Protocol (PP) populations. The overall Adjudication Committee success rates at the 1est of Certa visit (6 weeks after the last treatment does) in the ITT and Per Protocol (PP) populations. The overall Adjudication Committee success rates at the ITT population 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% (53/20) in patients treated with 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 (Bernut Visition 17.1%).

Population	Success Rat n/N (%)	,	Difference: Daptomycin for Injection-Comparate
Population	Daptomycin for Injection 6 mg/kg	Comparator*	(Confidence Interval)
Overall	53/120 (44%)	48/115 (42%)	2.4% (-10.2, 15.1) [†]
Baseline Pathogen			
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) [¶]
Left-Sided Infective Endocarditis	2h) or an anti-staphylococcal semi-synt e gentamicin.	. ,	· · · · · · · · · · · · · · · · · · ·

According to the modified Duke criteria 199% Confidence Interval (adjusted for multiplicity)

mean binding ranges from 90 to 93%. In clinical studies, mean serum protein binding in adult subjects with creatinine clearance (CL_{cR}) >30 mL/min was comparable to that observed

in healthy adult subjects with normal renal function. However, there was at rend toward decreasing serum protein binding among subjects with CL_{cR} <30 mL/min (88%), including those receiving hemodialysis (86%) and continuous ambulatory peritoneal dialysis (CAPD) (84%). The protein binding of daptomycin in adult subjects with moderate hepatic impairment (Child-Pugh Class B) was similar to that in healthy adult subjects.

The volume of distribution at steady-state (V_{SS}) of daptomycin in healthy adult subjects was approximately 0.1 L/kg and was independent of dose In *in vitro* studies, daptomydin was not metabolized by human liver microsomes

In 5 healthy adults after infusion of radiolabeled ¹⁴C-daptomycin, the plasma total radioactivity was similar to the concentration determined by microbiological assay. Inactive metabolites were detected in urine, as determined by the difference between total radioactive concentrations and microbiologically active concentrations. In a separate study, no metabolites were observed in plasma on Day 1 following the administration of daptomycin for injection at 6 mg/kg to adult subjects. Minor amounts of three oxidative metabolites and one unidentified compound were detected in urine. The site of metabolism has not been identified.

Excretion Daptomycin is excreted primarily by the kidneys. In a mass balance study of 5 healthy 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 feces (collected for up to 9 days) based on total radioactivity

Specific Populations Patients with Renal Impairment

Population-derived pharmacokinetic parameters were determined for infected adult patients (complicated skin and skin structure infections $[CL_T]$, elimination half-life ($t_{1/2}$), and volume of distribution at steady-state (V_{ss}) in patients with cSSSI were similar to those in patients with S aureus bacteremia. Following administration of daptomycin for injection 4 mg/kg every 24h by IV infusion over a 30- minute period, the mean CL_T was 9%, 22%, and 46% lower among subjects and patients with mild (CL_{CR} 50–80 mL/min), moderate (CL_{CR} 30–30 mL/min), and severe (CL_{CR} <30 mL/min) renal impairment, respectively, than in those with normal renal function (CL_{CR} 50–80 mL/min). The mean steady-state systemic exposure (AUC), $t_{1/2}$, and V_{ss} increased with decreasing renal function, although the mean AUC for patients with CL_{CR} 30–80 mL/min). was not markedly different from the mean AUC for patients with normal renal function. The mean AUC for patients with CL_{CR} <30 mL/min and for patients with round renal ACC to patients with normal renal indication. The mean ACC to patients with CL_{CR} <30 mL/min and for patients with ormal renal function. The mean C_{max} ranged from 60 to 70 mcg/mL in patients with CL_{CR} <30 mL/min, while the mean C_{max} ranged from 60 to 70 mcg/mL in patients with CL_{CR} <30 mL/min, while the mean C_{max} ranged from 80 to 114 mcg/mL in patients with mild to moderate renal impairment and was similar to that of round the period, the mean C_{max} ranged from 80 to 114 mcg/mL in patients with mild to moderate renal impairment and was similar to that of round the period. nal 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			c Parameters*			
	t _{1/2} † (h) 4 mg/kg	V _{ss} † (L/kg) 4 mg/kg	CL _ī † (mL/h/kg) 4 mg/kg	AUC _{₀.∞} † (mcg·h/mL) 4 mg/kg	AUC _{ss} ‡ (mcg·h/mL) 6 mg/kg	C _{min,ss} ‡ (mcg/mL) 6 mg/kg
Normal (CL _{CR}	9.39 (4.74)	0.13 (0.05)	10.9 (4.0)	417 (155)	545 (296)	6.9 (3.5)
>80 mL/min)	N=165	N=165	N=165	N=165	N=62	N=61
Mild Renal Impairment	— 10.7 5 (8 .36) —	— 0.12 (0.0 5) -	9.9 (4.0) –	— 46 6 (17 7) —	— 6 37 (2 15) —	1 2.4 (5.6)
(CL _{CR} 50-80 mL/min)	N=64	N=64	N=64	N=64	N=29	N=29
Moderate Renal	14.70 (10.50)	0.15 (0.06)	8.5 (3.4)	560 (258)	868 (349)	19.0 (9.0)
Impairment (CL _{CR} 30–	N=24	N=24	N=24	N=24	N=15	N=14
<50 mL/min)						
Severe Renal Impairment	27.83 (14.85)	0.20 (0.15)	5.9 (3.9)	925 (467)	1050 (892)	24.4 (21.4)
(CL _{CR} <30 mL/min)	N=8	N=8	N=8	N=8	N=2	N=2
	30.51 (6.51)	0.16 (0.04)	3.9 (2.1)	1193 (399)	NA	NA
Hemodialysis	N=16	N=16	N=16	N=16		
CAPD	27.56 (4.53)	0.11 (0.02)	2.9 (0.4)	1409 (238)	NA	NA
UAP D	N=5	N=5	N=5	N=5		

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

CL-c, creatinine clearance estimated using the Cockcroft-Gault equation with actual body weight: CAPD, continuous ambulatory peritonea dialysis; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve calculated to infinity; AUC_{b-n} area under the concentration-time curve calculated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve calculated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration-time curve extrapolated to infinity; AUC_{b-n} area under the concentration to the curve extrapolated to infinity; AUC_{b-n} area under the concentration to the curve extrapolated to infinity; AUC_{b-n} area under the concentration to the curve extrapolated to infinity; AUC_{b-n} ar [†]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)].

Patients with Hepatic Impairment The pharmacokinetics of daptomycin were evaluated in 10 adult subjects with moderate hepatic impairment (Child-Pugh Class B) and compared with those in healthy adult volunteers (N=9) more adult subjects with moderate negatic impaintent (chine-rugi) class b) and 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

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

Geriatric Patients The pharmacokinetics of daptomycin were evaluated in 12 healthy elderly subjects (≥75 years of age) and 11 healthy young adult controls (1 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 AUC_{0-x} was approximately 58% 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

The pharmacokinetics of daptomycin were evaluated in 6 moderately obese (Body Mass Index [BMI] 25 to 39.9 kg/m²) and 6 extremely obese (BMI ≥40 kg/m²) adult subjects and controls matched for age, gender, and renal function. Following administrat

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility Long-term carcinogenicity studies in animals have not been conducted to evaluate the carcinogenic potential of daptomycin for However, neither mutagenic nor clastogenic potential was found in a battery of genotoxicity tests, including the Ames assay, a mammalian 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 ended human dose of 6 mg/kg based on body surface area comparison).

13.2 Animal Toxicology and/or Pharmacology Adult Animals

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 elevations in creatine phosphokinase (CPK). No fibrosis 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 when treatment was extended from 1 month to p to 6 months. Severity was dose-dependent. All muscle effects, including microscopic changes, were fully reversible within 30 days following

In adult animals, effects on peripheral nerve (characterized by axonal degeneration and frequently accompanied by significant losses 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 (9 times the human C_{max} at the 6 mg/kg/day dose), with some clipical improvement noted within 2 weeks after the cessation of dosing. However, at 75 mg/kg/day for 1 month at the 6 7 of 8 dogs failed 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 very of period by a week of the second of th

minimally following single and multiple doses. Juvenile 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 juvenile dogs following 14 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 degeneration of the skeletal muscle in a majority of revealed recovery of the skeletal muscle and the ulnar nerve effects, but nerve degeneration in the science and spinal cord as still observed in all 150 mg/kg/day dogs.

Following once-daily administration of daptomycin to juvenile dogs for 28 days, microscopic effects in nerve tissue were noted at a Cmax value of 417 mg/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 (1308 mcg/mL).

Neonatal Animals

Neonatal dogs (4 to 31 days old) were more sensitive to daptomycin-related adverse nervous system and/or muscular system effects than retriction of the second system relates the second system relation of the second system relation in the second system relation is the second system relation in the second system relation in the second system relation is the second system relation in the second system relation in the second system relation is the second system relation in the second system relation is the second system relation in the second system relation is the second system relatio mg/kg/day with associated C_{max} and AUC_{int} values of 147 mcg/mL and 717 mcg h/mL, respectively (1.6 and 1.0-fold the adult human C_{max} and AUC, respectively, at the 6 mg/kg/day dose), mild clinical signs of twitching and one incidence of muscle rigidity were observed with no 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 C_{max} and AUC_{inf} 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_{inf} values of 62 mcg/mL and 247 mcg-h/mL, respectively (or 0.6 and 0.4-fold the adult human C_{max} and AUC, respectively at the 6 mg/kg dose).

4 CLINICAL STUDIES

14.1 Complicated Skin and Skin Structure Infections

Adults with cSSSI

dult patients with clinically documented complicated skin and skin structure infections (cSSSI) (Table 15) were enrolled in two randomized multinational, multicenter, investigator-blinded trials comparing daptomycin for injection (4 mg/kg IV every 24h) with either vancomycin (1 g IV q12h) or an anti-staphylococcal semi-synthetic penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin; 4 to 12 g IV per day). Patients could which to oral therapy after a minimum of 4 days of IV treatment if clinical improvement was demonstrated. Patients known to have backeremia at baseline were excluded. Patients with creatinine clearance (CL_{cR}) between 30 and 70 mL/min were to receive a lower dose of daptomycin for injection as specified in the protocol; however, the majority of patients in this subpopulation did not have the dose of daptomycin for injection adjusted.

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

Primary Diagnosis		(D	Adult Patients aptomycin for Injection / Compara	or*)
		Study 9801 N=264 / N=266	Study 9901 N=270 / N=292		Pooled N=534 / N=558
Wound Infection		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: vancomvcin (1	alV	n12h) or an anti-staphylococcal se	mi-synthetic penicillin (i e nafcillin o	xaci	illin cloxacillin or flucloxacilli

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 9801), and the second was conducted at non-US sites o (study 99). The two trials were similar in design but differed in patient characteristics, including history of diabetes and peripheral vasc disease. There were a total of \$34 adult patients treated with daptomycin for injection and 558 treated with comparator in the two trials. majority (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 clinically evaluable (C

population. In study 900, clinical success rates in the ITT population were 62.5% (165/264) in patients treated with daptomycin for inject and 60.9% (162/266) in patients treated with comparator drugs. Clinical success rates in the CE population were 76.0% (158/208) in patient

	Overall, there was no difference in time to clearance of S. aureus bacteremia between daptomycin for injection and comparator. The me	dian
for inightion	time to clearance in patients with MSSA was 4 days and in patients with MRSA was 8 days.	
for injection.	Failure of treatment due to persisting or relapsing S aureus infections was assessed by the Adjudication Committee in 19/120 (16%) dantom	vcin

infections, 8/19 daptomycin for injection-treated patients and 7/11 comparator-treated patients died

Failure of treatment due to persisting or relapsing S. aureus infections was assessed by the Adjudication Committee in 19/120 (16%) daptomycin for injection-treated patients (12 with MRSA and 7 with MSSA) and 11(115 (10%) comparator-treated patients (9 with MRSA treated with vancomycin and 2 with MSSA treated with an anti-staphylococcal semi-synthetic penicillin). Among all 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 S. aureus infection had deep-seated infection and did not eceive necessary surgical intervention [see Warnings and Precautions (5.9)].

Sighteen (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 bacteremia. Among patients with persisting or relapsing *S. aureus*

Pediatric Patients (1 to 17 Years of Age) with S. aureus Bacteremia The pediatric S. aureus bacteremia 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 for injection 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 for injection dosed at 7 mg/kg once daily, Children (7 to 11 years, n=19 patients) treated with daptomycin for injection dosed at 9 mg/kg once daily and Children (2 to 6 years, n=22 patients) treated with daptomycin for injection dosed at 12 mg/kg once daily. No patients 1 to <2 years of age were enrolled

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

The primary objective of this study was to assess the safety of daptomycin for injection. The clinical outcome was determined by resolution or improvement of symptoms at test-of-cure (TOC) visit, 7 to 14 days after the last dose, which was assessed by the site level Blinded Evaluator Of the 82 subjects randomized in the study, 81 subjects were treated with daptomycin for injection 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 for injection

population, and vs had a provents. *Aureus* bacteriana at Baseline. Of these is subjects were randomized to the daptonych for injection 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. Early-eight subjects switched to oral therapy, and the mean duration of drail 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 for injection and 77% (17/22) for comparator. 15 REFÉRENCES

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

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

Hater 149, 2010.
 Buitrago MI, 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 in a single-dose vial containing 500 mg of daptomycin: Package of 1 (NDC 60505-6229-4).

Store original packages at refrigerated temperatures, 2°C to 8°C (36°F to 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 patients that allergic reactions, including serious skin, kidney, lung, or other organ reactions, could occur and that these serious reactions require immediate treatment. Patients should report any previous allergic reactions to daptomycin [see Warnings and Precautions

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)]. <u>C. difficile-Associated Diarrhea (CDAD)</u>

Advise patients that diarrhea is a common problem caused by antibacterials including daptomycin for injection, that usually ends when the antibacterial 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 [see Warnings and Precautions (5.8)] Antibacterial Resistance

atients 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 feel 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. The trademarks depicted herein are owned by their respective companies

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Product name: Daptonmycin for Injection		Strength: 500mg	
Target Territory	: US	Customer Name:APOTI	EX
Code Number: 3	34120043611C	Dimension: 418*515mm	
Critical contents	s need to be reviewed: forma	it, contents, dimension, co	lor, barcode, logo, etc
F	Reviewed by	Signature	Date
	Production & Technology Dept.		
	Production Workshop		
QILU	International Business Dept.		
	QA		
CUSTOMER	QA/RA		