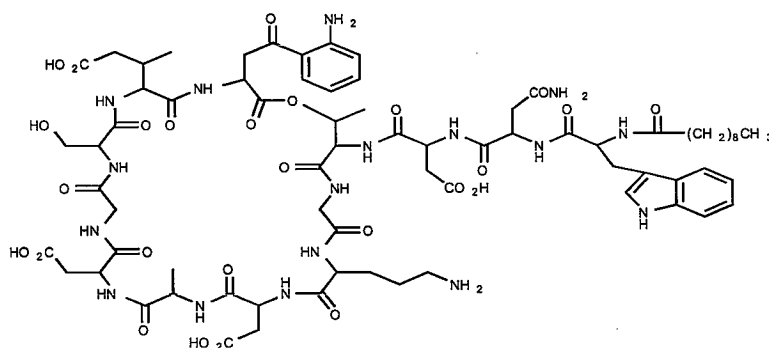


1 **Cubicin<sup>®</sup>**  
2 (daptomycin for injection)  
3 Rx only

4 To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cubicin  
5 and other antibacterial drugs, Cubicin should be used only to treat or prevent infections caused  
6 by bacteria.

7 **DESCRIPTION**

8 Cubicin contains daptomycin, a cyclic lipopeptide antibacterial agent derived from the  
9 fermentation of *Streptomyces roseosporus*. The chemical name is *N*-decanoyl-L-tryptophyl-L-  
10 asparaginyl-L-aspartyl-L-threonylglycyl-L-ornithyl-L-aspartyl-D-alanyl-L-aspartylglycyl-D-  
11 seryl-threo-3-methyl-L-glutamyl-3-anthraniloyl-L-alanine  $\epsilon_1$ -lactone. The chemical structure is:



12

13 The empirical formula is  $C_{72}H_{101}N_{17}O_{26}$ ; the molecular weight is 1620.67. Cubicin is supplied as  
14 a sterile, preservative-free, pale yellow to light brown, lyophilized cake containing  
15 approximately 900 mg/g of daptomycin for intravenous use following reconstitution with 0.9%  
16 sodium chloride injection. The only inactive ingredient is sodium hydroxide which is used in  
17 minimal quantities for pH adjustment. Freshly reconstituted solutions of Cubicin range in color  
18 from pale yellow to light brown.

19 **CLINICAL PHARMACOLOGY**

20 **Pharmacokinetics**

21 The mean (SD) pharmacokinetic parameters of daptomycin on Day 7 following the intravenous  
22 administration of 4 mg/kg, 6 mg/kg, and 8 mg/kg q24h to healthy young adults (mean age 35.8  
23 years) are summarized in Table 1.

24 **Table 1. Mean (SD) Daptomycin Pharmacokinetic Parameters in Healthy Volunteers on Day 7**

Dose mg/kg	C <sub>max</sub> (µg/mL)	T <sub>max</sub> <sup>*</sup> (h)	AUC <sub>0-24</sub> (µg*h/mL)	t <sub>1/2</sub> (h)	V <sub>d</sub> (L/kg)	CL <sub>T</sub> (mL/h/kg)	CL <sub>R</sub> (mL/h/kg)	Ae <sub>24</sub> %
4 (n=6)	57.8 (3.0)	0.8 (0.5, 1.0)	494 (75)	8.1 (1.0)	0.096 (0.009)	8.3 (1.3)	4.8 (1.3)	53.0 (10.8)
6 (n=6)	98.6 (12)	0.5 (0.5,1.0)	747 (91)	8.9 (1.3)	0.104 (0.013)	8.1 (1.0)	4.4 (0.3)	47.4 (11.5)
8 (n=6)	133 (13.5)	0.5 (0.5,1.0)	1130 (117)	9.0 (1.2)	0.092 (0.012)	7.2 (0.8)	3.7 (0.5)	52.1 (5.19)

25 \*Median (minimum, maximum)

26 C<sub>max</sub> = Maximum plasma concentration; T<sub>max</sub> = Time to C<sub>max</sub>; AUC<sub>0-24</sub> = Area under concentration-time curve from 0  
 27 to 24 hours; t<sub>1/2</sub> = Terminal elimination half-life; V<sub>d</sub> = Apparent volume of distribution; CL<sub>T</sub> = Systemic clearance;  
 28 CL<sub>R</sub> = renal clearance; Ae<sub>24</sub> = Percent of dose recovered in urine over 24 hours as unchanged daptomycin following  
 29 the first dose.

30 Daptomycin pharmacokinetics are nearly linear and time-independent at doses up to 6 mg/kg  
 31 administered once daily for 7 days. Steady-state concentrations are achieved by the third daily  
 32 dose. The mean (SD) steady-state trough concentrations (Days 4 to 8) attained following  
 33 administration of 4, 6, and 8 mg/kg q24h are 5.9 (1.6), 9.4 (2.5) and 14.9 (2.9) µg/mL,  
 34 respectively.

35 **Distribution**

36 Daptomycin is reversibly bound to human plasma proteins, primarily to serum albumin, in a  
 37 concentration-independent manner. The mean serum protein binding of daptomycin was  
 38 approximately 92% in healthy adults after the administration of 4 mg/kg or 6 mg/kg. Serum  
 39 protein binding was not altered as a function of daptomycin concentration, dose, or number of  
 40 doses received.

41 In clinical studies, mean serum protein binding in subjects with CL<sub>CR</sub> ≥30 mL/min was  
 42 comparable to that observed in healthy subjects with normal renal function. However, there was  
 43 a trend toward decreasing serum protein binding among subjects with CL<sub>CR</sub> <30 mL/min  
 44 (87.6%) including hemodialysis patients (85.9%) and CAPD patients (83.5%). The protein  
 45 binding of daptomycin in subjects with hepatic impairment (Child-Pugh B) was similar to  
 46 healthy adult subjects.

47 The apparent volume of distribution of daptomycin at steady-state in healthy adult subjects was  
 48 approximately 0.09 L/kg.

49 **Metabolism**

50 In vitro studies with human hepatocytes indicate that daptomycin does not inhibit or induce the  
 51 activities of the following human cytochrome (CYP) P450 isoforms: 1A2, 2A6, 2C9, 2C19, 2D6,  
 52 2E1, and 3A4. It is unlikely that daptomycin will inhibit or induce the metabolism of drugs

53 metabolized by the CYP P450 system. It is unknown whether daptomycin is a substrate of the  
54 CYP P450 system.

55 In five healthy young adults after infusion of radiolabeled <sup>14</sup>C-daptomycin, the plasma total  
56 radioactivity was similar to the concentration determined by microbiological assay. Inactive  
57 metabolites of daptomycin have been detected in the urine, as determined by the difference in  
58 total radiolabeled concentrations and microbiologically active concentrations. The site of  
59 metabolism has not been identified.

## 60 Excretion

61 Daptomycin is excreted primarily by the kidney. In a mass balance study of five healthy subjects  
62 using radiolabeled daptomycin, approximately 78% of the administered dose was recovered from  
63 urine based on total radioactivity (approximately 52% of the dose based on microbiologically  
64 active concentrations) and 5.7% of the dose was recovered from feces (collected for up to nine  
65 days) based on total radioactivity.

66 Because renal excretion is the primary route of elimination, dosage adjustment is necessary in  
67 patients with severe renal insufficiency ( $CL_{CR} < 30$  mL/min) (see **DOSAGE AND**  
68 **ADMINISTRATION**).

## 69 Special Populations

### 70 Renal Insufficiency

71 Population derived pharmacokinetic parameters were determined for patients with skin and skin  
72 structure infections and healthy non-infected subjects with varying degrees of renal function  
73 (n=282). Following the administration of a single 4 mg/kg IV dose of daptomycin, the plasma  
74 clearance ( $CL_T$ ) was reduced and the systemic exposure ( $AUC_{0-\infty}$ ) was increased with decreasing  
75 renal function (see Table 2). The mean  $AUC_{0-\infty}$  was not markedly different for subjects and  
76 patients with  $CL_{CR}$  30-80 mL/min as compared to those with normal renal function ( $CL_{CR}$   
77  $>80$  mL/min). The mean  $AUC_{0-\infty}$  values for subjects and patients with  $CL_{CR} <30$  mL/min and  
78 hemodialysis (dosed post dialysis)/CAPD subjects were approximately 2- and 3-times higher,  
79 respectively, than the values in individuals with normal renal function. The mean  $C_{max}$  ranged  
80 from 59.6 µg/mL to 69.6 µg/mL in subjects with  $CL_{CR} \geq 30$  mL/min while those with  $CL_{CR} <30$   
81 mL/min ranged from 41.1 µg/mL to 57.7 µg/mL. In 11 non-infected adult subjects undergoing  
82 dialysis, approximately 15% and 11% of the administered dose was removed by 4 hours of  
83 hemodialysis and 48 hours of CAPD, respectively. The recommended dosing regimen is 4 mg/kg  
84 once every 24 hours for patients with  $CL_{CR} \geq 30$  mL/min and 4 mg/kg once every 48 hours for  
85  $CL_{CR} <30$  mL/min, including those on hemodialysis and CAPD. Daptomycin should be  
86 administered following the completion of hemodialysis on hemodialysis days (see **DOSAGE**  
87 **AND ADMINISTRATION**).

88 **Table 2. Mean (SD) Daptomycin Population Pharmacokinetic Parameters Following a Single 30-Minute**  
 89 **Intravenous Infusion of 4 mg/kg to Infected Patients and Non-Infected Subjects with Varying Degrees of**  
 90 **Renal Function**

Renal Function	AUC <sub>0-∞</sub> (μg*h/mL)	t <sub>1/2</sub> (h)	V <sub>ss</sub> (L/kg)	CL <sub>T</sub> (mL/h/kg)
Normal (CL <sub>CR</sub> >80 mL/min) (N=165)	417 (155)	9.39 (4.74)	0.13 (0.05)	10.9 (4.0)
Mild Renal Impairment (CL <sub>CR</sub> 50-80 mL/min) (N=64)	466 (177)	10.75 (8.36)	0.12 (0.05)	9.9 (4.0)
Moderate Renal Impairment (CL <sub>CR</sub> 30-<50 mL/min) (N=24)	560 (258)	14.70 (10.50)	0.15 (0.06)	8.5 (3.4)
Severe Renal Impairment (CL <sub>CR</sub> <30 mL/min) (N=8)	925 (467)	27.83 (14.85)	0.20 (0.15)	5.9 (3.9)
Hemodialysis and CAPD (N=21)	1244 (374)	29.81 (6.13)	0.15 (0.04)	3.7 (1.9)

91 Note: CL<sub>CR</sub> = Creatinine clearance estimated using the Cockcroft-Gault equation with actual body weight.

## 92 **Hepatic Insufficiency**

93 The pharmacokinetics of daptomycin were evaluated in 10 subjects with moderate hepatic  
 94 impairment (Child-Pugh Class B) and compared with healthy volunteers (n=9) matched for  
 95 gender, age and weight. The pharmacokinetics of daptomycin were not altered in subjects with  
 96 moderate hepatic impairment. No dosage adjustment is warranted when administering  
 97 daptomycin to patients with mild to moderate hepatic impairment. The pharmacokinetics of  
 98 daptomycin in patients with severe hepatic insufficiency have not been evaluated.

## 99 **Gender**

100 No clinically significant gender-related differences in daptomycin pharmacokinetics have been  
 101 observed between healthy male and female subjects. No dosage adjustment is warranted based  
 102 on gender when administering daptomycin.

## 103 **Geriatric**

104 The pharmacokinetics of daptomycin were evaluated in 12 healthy elderly subjects (≥ 75 years of  
 105 age) and 11 healthy young matched controls (18-30 years of age). Following administration of a  
 106 single intravenous 4 mg/kg dose, the mean total clearance of daptomycin was reduced  
 107 approximately 35% and the mean AUC<sub>0-∞</sub> increased approximately 58% in elderly subjects  
 108 compared to young healthy subjects. There were no differences in C<sub>max</sub>. No dosage adjustment is  
 109 warranted for elderly patients with normal (for age) renal function.

## 110 **Obesity**

111 The pharmacokinetics of daptomycin were evaluated in six moderately obese (Body Mass Index  
 112 [BMI] 25-39.9 kg/m<sup>2</sup>) and six extremely obese (BMI ≥40 kg/m<sup>2</sup>) subjects and controls matched  
 113 for age, sex, and renal function. Following administration of a single intravenous 4 mg/kg dose

114 based on total body weight, the plasma clearance of daptomycin increased approximately 18% in  
115 moderately obese subjects and 46% in extremely obese subjects compared with non-obese  
116 controls. The  $AUC_{0-\infty}$  of daptomycin increased approximately 30% in moderately obese and 31%  
117 in extremely obese subjects compared with non-obese controls. The differences were most likely  
118 due to differences in the renal clearance of daptomycin. No dosage adjustment of daptomycin is  
119 warranted in obese subjects.

#### 120 **Pediatric**

121 The pharmacokinetics of daptomycin in pediatric populations (<18 years of age) have not been  
122 established.

#### 123 **Drug-Drug Interactions**

124 Drug-drug interaction studies were performed with daptomycin and other drugs that are likely to  
125 either be co-administered or associated with overlapping toxicity.

#### 126 **Aztreonam**

127 In a study in which 15 healthy adult subjects received a single dose of daptomycin IV 6 mg/kg,  
128 aztreonam 1,000 mg IV, and both in combination, the  $C_{max}$  and  $AUC_{0-\infty}$  of daptomycin were not  
129 significantly altered by aztreonam; the  $C_{max}$  and  $AUC_{0-\infty}$  of aztreonam were also not significantly  
130 altered by daptomycin. No dosage adjustment of either antibiotic is warranted when co-  
131 administered.

#### 132 **Tobramycin**

133 In a study in which 6 healthy adult males received a single dose of daptomycin IV 2 mg/kg,  
134 tobramycin IV 1 mg/kg, and both in combination, the mean  $C_{max}$  and  $AUC_{0-\infty}$  of daptomycin  
135 increased 12.7% and 8.7%, respectively, when administered with tobramycin. The mean  $C_{max}$   
136 and  $AUC_{0-\infty}$  of tobramycin decreased 10.7% and 6.6%, respectively, when administered with  
137 daptomycin. None of these differences was statistically significant. The interaction between  
138 daptomycin and tobramycin with a clinical dose of daptomycin (4 mg/kg) is unknown. Caution is  
139 warranted when daptomycin is co-administered with tobramycin.

#### 140 **Warfarin**

141 In 16 healthy subjects, concomitant administration of daptomycin 6 mg/kg once daily for 5 days  
142 followed by a single oral dose of warfarin (25 mg) had no significant effect on the  
143 pharmacokinetics of either drug and did not significantly alter the INR (International Normalized  
144 Ratio). (see **PRECAUTIONS, Drug Interactions**)

#### 145 **Simvastatin**

146 In 20 healthy subjects on a stable daily dose of simvastatin 40 mg, administration of daptomycin  
147 IV 4 mg/kg once daily for 14 days (n=10) was not associated with a higher incidence of adverse  
148 events than subjects receiving placebo once daily (n=10) (see **PRECAUTIONS, Drug**  
149 **Interactions**).

150 **Probenecid**

151 Concomitant administration of probenecid (500 mg four times daily) and a single dose of  
152 daptomycin IV 4 mg/kg did not significantly alter the  $C_{max}$  and  $AUC_{0-\infty}$  of daptomycin. No  
153 dosage adjustment of daptomycin is warranted when daptomycin is co-administered with  
154 probenecid.

155 **MICROBIOLOGY**

156 Daptomycin is an antibacterial agent of a new class of antibiotics, the cyclic lipopeptides.  
157 Daptomycin is a natural product which has clinical utility in the treatment of infections caused  
158 by aerobic Gram-positive bacteria. The *in vitro* spectrum of activity of daptomycin encompasses  
159 most clinically relevant Gram-positive pathogenic bacteria. Daptomycin retains potency against  
160 antibiotic resistant Gram-positive bacteria including isolates resistant to methicillin, vancomycin,  
161 and linezolid.

162 Daptomycin exhibits rapid, concentration-dependent bactericidal activity against Gram-positive  
163 organisms *in vitro*. This has been demonstrated both by time-kill curves and by MBC/MIC  
164 ratios using broth dilution methodology.

165 *In vitro* studies have demonstrated additive or indifferent interactions of daptomycin with other  
166 antibiotics. Antagonism, as determined by kill curve studies, has not been observed. *In vitro*  
167 synergistic interactions occurred with aminoglycosides and  $\beta$ -lactam antibiotics against some  
168 isolates of staphylococci and enterococci, including some MRSA isolates.

169 **Mechanism of Action**

170 The mechanism of action of daptomycin is distinct from any other antibiotic. Daptomycin binds  
171 to bacterial membranes and causes a rapid depolarization of membrane potential. The loss of  
172 membrane potential leads to inhibition of protein, DNA, and RNA synthesis, which results in  
173 bacterial cell death.

174 **Resistance**

175 *Mechanisms of Resistance*

176 At this time, no mechanism of resistance to daptomycin has been identified.  
177 Currently, there are no known transferable elements that confer resistance to  
178 daptomycin.

179 *Cross Resistance*

180 Cross-resistance has not been observed with any other class of antibiotic.

181 *Other*

182 The emergence of resistance to daptomycin occurred in 2 of more than 1000  
183 (<0.2%) infected subjects across the entire set of Phase 2 and 3 clinical trials. In  
184 one case, a resistant *S. aureus* was isolated from a patient in a Phase 2 study who

185 received daptomycin at less than the protocol-specified dose for the initial 5 days  
186 of therapy. In the second case, a resistant *E. faecalis* was isolated from a patient  
187 with an infected chronic decubitus ulcer enrolled in a salvage trial.

188 Daptomycin has been shown to be active against most isolates of the following microorganisms  
189 both *in vitro* and in clinical infections, as described in the **INDICATIONS AND USAGE**  
190 section.

191 **Aerobic and facultative Gram-positive microorganisms:**

192 *Enterococcus faecalis* (vancomycin-susceptible strains only)  
193 *Staphylococcus aureus* (including methicillin-resistant strains)  
194 *Streptococcus agalactiae*  
195 *Streptococcus dysgalactiae* subsp. *equisimilis*  
196 *Streptococcus pyogenes*

197 The following *in vitro* data are available, but their clinical significance is unknown. Greater than  
198 90% of the following microorganisms demonstrate an *in vitro* MIC less than or equal to the  
199 susceptible breakpoint for daptomycin versus the bacterial genus. The efficacy of daptomycin in  
200 treating clinical infections due to these microorganisms has not been established in adequate and  
201 well-controlled clinical trials.

202 **Aerobic and facultative Gram-positive microorganisms:**

203 *Corynebacterium jeikeium*  
204 *Enterococcus faecalis* (vancomycin-resistant strains)  
205 *Enterococcus faecium* (including vancomycin-resistant strains)  
206 *Staphylococcus epidermidis* (including methicillin-resistant strains)  
207 *Staphylococcus haemolyticus*

208 **Susceptibility Testing Methods**

209 Susceptibility testing by dilution methods requires the use of daptomycin susceptibility powder.  
210 The testing also requires presence of physiological levels of free calcium ions (50 mg/L calcium  
211 chloride) in Mueller-Hinton broth medium and a minimum of 28 mg/L calcium chloride in  
212 Mueller-Hinton agar medium.

213 **Dilution technique**

214 Quantitative methods are used to determine antimicrobial MICs. These MICs provide estimates  
215 of the susceptibility of bacteria to antimicrobial compounds. The MICs should be determined  
216 using a standardized procedure<sup>2,3</sup>. Standardized procedures are based on a dilution method  
217 (broth or agar) or equivalent with standardized inoculum concentrations and standardized  
218 concentrations of daptomycin powder. The MIC values should be interpreted according to the  
219 criteria in Table 3.

220 **Diffusion technique**

221 Quantitative methods that require measurement of zone diameters also provide reproducible  
222 estimates of the susceptibility of bacteria to antimicrobial compounds. One such standardized

223 procedure requires the use of standardized inoculum concentrations<sup>1,3</sup>. This procedure uses  
 224 paper disks impregnated with 30 µg of daptomycin to test the susceptibility of microorganisms to  
 225 daptomycin. The disk diffusion interpretive criteria are provided in Table 3.

226 **Table 3. Susceptibility Interpretive Criteria for Daptomycin**

Pathogen	Minimal inhibitory concentration (µg/mL) <sup>a</sup>			Disk diffusion zone Diameter (mm) <sup>b</sup>		
	S	I	R	S	I	R
<i>Staphylococcus aureus</i> (methicillin-susceptible and methicillin-resistant)	≤1	(c)	(c)	≥16	(c)	(c)
<i>Streptococcus pyogenes</i> , <i>Streptococcus agalactiae</i> , and <i>Streptococcus dysgalactiae</i> subsp. <i>equisimilis</i>	≤1	(c)	(c)	≥16	(c)	(c)
<i>Enterococcus faecalis</i> (vancomycin-susceptible only)	≤4	(c)	(c)	≥11	(c)	(c)

227

- 228 a. The MIC interpretive criteria for *S. aureus* and *E. faecalis* are applicable only to tests performed by broth  
 229 microdilution using Mueller-Hinton broth adjusted to a calcium content of 50 mg/L; the MIC interpretive  
 230 criteria for *Streptococcus* spp. other than *S. pneumoniae* are applicable only to tests performed by broth  
 231 microdilution using Mueller-Hinton broth adjusted to a calcium content of 50 mg/L, supplemented with 2 to 5%  
 232 lysed horse blood, inoculated with a direct colony suspension and incubated in ambient air at 35°C for 20 to 24  
 233 hours.
- 234 b. The zone diameter interpretive criteria for *Streptococcus* spp. other than *S. pneumoniae* are applicable only to  
 235 tests performed using Mueller-Hinton agar supplemented with 5% defibrinated sheep blood and incubated in  
 236 5% CO<sub>2</sub> at 35°C for 20 to 24 hours.
- 237 c. The current absence of data on daptomycin resistant strains precludes defining any categories other than  
 238 "Susceptible". Strains yielding test results suggestive of a "non-susceptible" category should be retested, and if  
 239 the result is confirmed, the isolate should be submitted to a reference laboratory for further testing.

240 A report of "Susceptible" indicates that the pathogen is likely to be inhibited if the antimicrobial  
 241 compound in the blood reaches the concentrations usually achievable.

## 242 Quality Control

243 Standardized susceptibility test procedures require the use of quality control microorganisms to  
 244 control the technical aspects of the procedures. Standard daptomycin powder should provide the  
 245 range of values noted in Table 4. Quality control microorganisms are specific strains of  
 246 organisms with intrinsic biological properties relating to resistance mechanisms and their genetic  
 247 expression within bacteria; the specific strains used for microbiological quality control are not  
 248 clinically significant.



249 **Table 4. Acceptable Quality Control Ranges for Daptomycin to be Used in Validation of Susceptibility Test**  
 250 **Results**

QC Strain	Acceptable Quality Control Ranges	
	Minimum Inhibitory Concentration (MIC in µg/mL) <sup>a</sup>	Disk Diffusion (Zone Diameters in mm) <sup>b</sup>
<i>Enterococcus faecalis</i> ATCC 29212	1-8	Not applicable
<i>Staphylococcus aureus</i> ATCC 29213	0.25-1	Not applicable
<i>Staphylococcus aureus</i> ATCC 25923	Not applicable	18-23
<i>Streptococcus pneumoniae</i> ATCC 49619 <sup>c</sup>	0.06-0.5 <sup>d</sup>	19-26 <sup>e</sup>

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- a. Quality control ranges reflect MICs obtained when Mueller-Hinton broth is supplemented with calcium to a final concentration of 50 mg/L.
- b. Some lots of Mueller-Hinton agar are deficient in calcium and give small zone diameters.
- c. This organism may be used for validation of susceptibility test results when testing *Streptococcus* spp. other than *S. pneumoniae*.
- d. This quality control range for *S. pneumoniae* is applicable only to tests performed by broth microdilution using cation adjusted Mueller-Hinton broth with 2-5% lysed horse blood inoculated with a direct colony suspension and incubated in ambient air at 35°C for 20 to 24 hours.
- e. This quality control zone diameter range is applicable only to tests performed using Mueller-Hinton agar supplemented with 5% defibrinated sheep blood inoculated with a direct colony suspension and incubated in 5% CO<sub>2</sub> at 35°C for 20 to 24 hours.

263

## INDICATIONS AND USAGE

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Cubicin (daptomycin for injection) is indicated for the treatment of complicated skin and skin structure infections caused by susceptible strains of the following Gram-positive microorganisms (see also **DOSAGE AND ADMINISTRATION**): *Staphylococcus aureus* (including methicillin-resistant strains), *Streptococcus pyogenes*, *Streptococcus agalactiae*, *Streptococcus dysgalactiae* subsp. *equisimilis* and *Enterococcus faecalis* (vancomycin-susceptible strains only). Combination therapy may be clinically indicated if the documented or presumed pathogens include Gram-negative or anaerobic organisms. (see **CLINICAL STUDIES**).

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Daptomycin is not indicated for the treatment of pneumonia.

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Appropriate specimens for microbiological examination should be obtained in order to isolate and identify the causative pathogens and to determine their susceptibility to daptomycin. Empiric therapy may be initiated while awaiting test results. Antimicrobial therapy should be adjusted as needed based upon test results.

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To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cubicin and other antibacterial drugs, Cubicin should be used only to treat or prevent infections that are

278 proven or strongly suspected to be caused by susceptible bacteria. When culture and  
279 susceptibility information are available, they should be considered in selecting or modifying  
280 antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns  
281 may contribute to the empiric selection of therapy.

## 282 **CONTRAINDICATIONS**

283 Cubicin is contraindicated in patients with known hypersensitivity to daptomycin.

## 284 **WARNINGS**

285 Pseudomembranous colitis has been reported with nearly all antibacterial agents, including  
286 daptomycin, and may range in severity from mild to life-threatening. Therefore it is important to  
287 consider this diagnosis in patients who present with diarrhea subsequent to the administration of  
288 any antibacterial agent.

289 Treatment with antibacterial agents alters the normal flora of the colon and may permit  
290 overgrowth of clostridia. Studies indicated that a toxin produced by *Clostridium difficile* is a  
291 primary cause of "antibiotic-associated colitis."

292 If a diagnosis of pseudomembranous colitis has been established, appropriate therapeutic  
293 measures should be initiated. Mild cases of pseudomembranous colitis usually respond to drug  
294 discontinuation alone. In moderate to severe cases, consideration should be given to  
295 management with fluids and electrolytes, protein supplementation, and treatment with an  
296 antibacterial agent clinically effective against *C. difficile*.

## 297 **PRECAUTIONS**

### 298 **General**

299 The use of antibiotics may promote the overgrowth of nonsusceptible organisms. Should  
300 superinfection occur during therapy, appropriate measures should be taken.

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

### 304 **Skeletal Muscle**

305 In Phase 3 complicated skin and skin structure infection (cSSSI) trials, elevations in serum  
306 creatine phosphokinase (CPK) were reported as clinical adverse events in 15/534 (2.8%)  
307 daptomycin-treated patients, compared to 10/558 (1.8%) comparator-treated patients. Skeletal  
308 muscle effects associated with daptomycin were observed in animals (see **ANIMAL**  
309 **PHARMACOLOGY**).

310 Patients receiving Cubicin should be monitored for the development of muscle pain or weakness,  
311 particularly of the distal extremities. CPK levels should be monitored weekly in patients who  
312 receive Cubicin. Patients who develop unexplained elevations in CPK while receiving

313 daptomycin should be monitored more frequently. Among patients with abnormal CPK (>500  
314 U/L) at baseline, 2/19 (10.5%) treated with Cubicin and 4/24 (16.7%) treated with comparator  
315 developed further increases in CPK while on therapy. In this same population, no patients  
316 developed myopathy. Daptomycin-treated patients with baseline CPK >500 U/L (n=19) did not  
317 experience an increased incidence of CPK elevations or myopathy relative to those treated with  
318 comparator (n=24).

319 Cubicin should be discontinued in patients with unexplained signs and symptoms of myopathy in  
320 conjunction with CPK elevation >1000 U/L (~5X ULN), or in patients without reported  
321 symptoms who have marked elevations in CPK ( $\geq 10X$  ULN). In addition, consideration should  
322 be given to temporarily suspending agents associated with rhabdomyolysis, such as HMG-CoA  
323 reductase inhibitors, in patients receiving Cubicin.

324 In a small number of patients in Phase 1 and Phase 2 studies, administration of Cubicin was  
325 associated with decreases in nerve conduction velocity and with adverse events (e.g.,  
326 paresthesias, Bell's palsy) possibly reflective of peripheral or cranial neuropathy. Nerve  
327 conduction deficits were also detected in a similar number of comparator subjects in these  
328 studies. In Phase 3 cSSSI and CAP studies 7/989 (0.7%) daptomycin-treated patients and 7/1018  
329 (0.7%) comparator-treated patients experienced paresthesias. New or worsening peripheral  
330 neuropathy was not diagnosed in any of these patients. In animals, effects of daptomycin on  
331 peripheral nerve were observed (see **ANIMAL PHARMACOLOGY**). Therefore, physicians  
332 should be alert to the possibility of signs and symptoms of neuropathy in patients receiving  
333 Cubicin.

## 334 **Drug Interactions**

### 335 **Warfarin**

336 Concomitant administration of daptomycin (6 mg/kg once every 24 hours for 5 days) and  
337 warfarin (25 mg single oral dose) had no significant effect on the pharmacokinetics of either  
338 drug and the INR was not significantly altered. As experience with the concomitant  
339 administration of daptomycin and warfarin is limited to volunteer studies, anticoagulant activity  
340 in patients receiving daptomycin and warfarin should be monitored for the first several days after  
341 initiating therapy with Cubicin (see **CLINICAL PHARMACOLOGY, Drug-Drug**  
342 **Interactions**).

### 343 **HMG CoA Reductase Inhibitors**

344 Inhibitors of HMG-CoA reductase may cause myopathy, which is manifested as muscle pain or  
345 weakness associated with elevated levels of CPK. There were no reports of skeletal myopathy in  
346 a placebo-controlled Phase I trial in which 10 healthy subjects on stable simvastatin therapy were  
347 treated concurrently with daptomycin (4 mg/kg once every 24 hours) for 14 days. Experience  
348 with co-administration of HMG-CoA reductase inhibitors and Cubicin in patients is limited,  
349 therefore, consideration should be given to temporarily suspending use of HMG-CoA reductase  
350 inhibitors in patients receiving Cubicin.

351 **Drug-Laboratory Test Interactions**

352 There are no reported drug-laboratory test interactions.

353 **Carcinogenesis, Mutagenesis, Impairment of Fertility**

354 Long-term carcinogenicity studies in animals have not been conducted to evaluate the  
355 carcinogenic potential of daptomycin. However, neither mutagenic nor clastogenic potential was  
356 found in a battery of genotoxicity tests, including the Ames assay, a mammalian cell gene  
357 mutation assay, a test for chromosomal aberrations in Chinese hamster ovary cells, an *in vivo*  
358 micronucleus assay, an *in vitro* DNA repair assay, and an *in vivo* sister chromatid exchange  
359 assay in Chinese hamsters.

360 Daptomycin did not affect the fertility or reproductive performance of male and female rats when  
361 administered intravenously at doses up to 150 mg/kg/day, which is approximately 9 times the  
362 estimated human exposure level based upon AUCs.

363 **Pregnancy**

364 **Teratogenic effects: Pregnancy Category B**

365 Reproductive and teratology studies performed in rats and rabbits at doses of up to 75 mg/kg, 3  
366 and 6 times the human dose respectively on a body surface area basis, have revealed no evidence  
367 of harm to the fetus due to Cubicin. There are, however, no adequate and well controlled studies  
368 in pregnant women. Because animal reproduction studies are not always predictive of human  
369 response, this drug should be used during pregnancy only if clearly needed.

370 **Nursing Mothers**

371 It is not known if daptomycin is excreted in human milk. Caution should be exercised when  
372 Cubicin is administered to nursing women.

373 **Pediatric Use**

374 Safety and efficacy of Cubicin in patients under the age of 18 have not been established.

375 **Geriatric Use**

376 Of the 534 patients treated with Cubicin in Phase 3 controlled clinical trials of complicated skin  
377 and skin structure infection, 27.0% were 65 years of age or older and 12.4% were 75 years or  
378 older. In the two Phase 3 clinical studies in patients with cSSSI, lower clinical success rates were  
379 seen in patients  $\geq 65$  years of age compared to those  $< 65$  years of age. In addition, treatment-  
380 emergent adverse events were more common in patients  $\geq 65$  years old than in patients  $< 65$  years  
381 of age in both cSSSI studies.

382 **ANIMAL PHARMACOLOGY**

383 In animals, daptomycin administration has been associated with effects on skeletal muscle with  
384 no changes in cardiac or smooth muscle. Skeletal muscle effects were characterized by  
385 degenerative/regenerative changes and variable elevations in CPK. No fibrosis or  
386 rhabdomyolysis was evident in repeat dose studies up to the highest doses tested in rats (150  
387 mg/kg/day) and dogs (100 mg/kg/day). The degree of skeletal myopathy showed no increase  
388 when treatment was extended from 1 month to up to 6 months. Severity was dose dependent. All  
389 muscle effects, including microscopic changes, were fully reversible within 30 days following  
390 cessation of dosing.

391 In adult animals, effects on peripheral nerve (characterized by axonal degeneration and  
392 frequently accompanied by significant losses of patellar reflex, gag reflex and pain perception)  
393 were observed at doses higher than those associated with skeletal myopathy. Deficits in the dogs'  
394 patellar reflexes were seen within 2 weeks of the start of treatment at 40 mg/kg (3.5 times the  
395 human AUC), with some clinical improvement noted within 2 weeks of the cessation of dosing.  
396 However, at 75 mg/kg daily for 1 month, 7/8 dogs failed to regain full patellar reflex responses  
397 within the duration of a 3 month recovery period. In a separate study in dogs receiving doses of  
398 75 and 100 mg/kg/day for 2 weeks, minimal residual histological changes were noted at 6  
399 months after cessation of dosing. However, recovery of peripheral nerve function was evident.

400 Tissue distribution studies in rats have shown that daptomycin is retained in the kidney, but does  
401 not appear to penetrate across the blood-brain barrier following single and multiple doses.

402 **ADVERSE REACTIONS**

403 Because clinical trials are conducted under widely varying conditions, adverse reaction rates  
404 observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials  
405 of another drug and may not reflect the rates observed in practice. The adverse reaction  
406 information from clinical trials does, however, provide a basis for identifying the adverse events  
407 that appear to be related to drug use and for approximating rates.

408 Clinical studies sponsored by Cubist enrolled 1,409 patients treated with daptomycin and 1,185  
409 treated with comparator. Most adverse events reported in these clinical studies were described as  
410 mild or moderate in intensity. In Phase 3 cSSSI trials, daptomycin was discontinued in 15/534  
411 (2.8%) patients due to an adverse event while comparator was discontinued in 17/558 (3.0%)  
412 patients.

413 The rates of most common adverse events, organized by body system, observed in cSSSI patients  
414 are displayed in Table 5.

415 **Table 5. Incidence (%) of Adverse Events that Occurred in  $\geq 2\%$  of Patients in Either Daptomycin or**  
 416 **Comparator Treatment Groups in Phase 3 cSSSI Studies**

Adverse Event	Daptomycin (N=534)	Comparator* (N=558)
<b>Gastrointestinal disorders</b>		
Constipation	6.2%	6.8%
Nausea	5.8%	9.5%
Diarrhea	5.2%	4.3%
Vomiting	3.2%	3.8%
Dyspepsia	0.9%	2.5%
<b>General disorders</b>		
Injection site reactions	5.8%	7.7%
Fever	1.9%	2.5%
<b>Nervous system disorders</b>		
Headache	5.4%	5.4%
Insomnia	4.5%	5.4%
Dizziness	2.2%	2.0%
<b>Skin/subcutaneous disorders</b>		
Rash	4.3%	3.8%
Pruritus	2.8%	3.8%
<b>Diagnostic investigations</b>		
Abnormal liver function tests	3.0%	1.6%
Elevated CPK	2.8%	1.8%
<b>Infections</b>		
Fungal Infections	2.6%	3.2%
Urinary Tract Infections	2.4%	0.5%
<b>Vascular disorders</b>		
Hypotension	2.4%	1.4%
Hypertension	1.1%	2.0%
<b>Renal/urinary disorders</b>		
Renal failure	2.2%	2.7%
<b>Blood/lymphatic disorders</b>		
Anemia	2.1%	2.3%
<b>Respiratory disorders</b>		
Dyspnea	2.1%	1.6%
<b>Musculoskeletal disorders</b>		
Limb pain	1.5%	2.0%
Arthralgia	0.9%	2.2%

417 \*Comparators included vancomycin (1 g IV q12h) and anti-staphylococcal penicillins (i.e. nafcillin, oxacillin,  
 418 cloxacillin, flucloxacillin; 4-12 g/day in divided doses)

419 In Phase 3 studies of community-acquired pneumonia (CAP), the death rate and rates of serious  
 420 cardiorespiratory adverse events were higher in daptomycin-treated patients than in comparator-

421 treated patients. These differences were due to lack of therapeutic effectiveness of daptomycin  
 422 in the treatment of CAP in patients experiencing these adverse events (see **INDICATIONS**  
 423 **AND USAGE**).

424 Additional adverse events that occurred in 1-2% of patients in either daptomycin or comparator  
 425 treatment groups in the cSSSI studies are as follows: edema, cellulitis, hypoglycemia, elevated  
 426 alkaline phosphatase, cough, back pain, abdominal pain, hypokalemia, hyperglycemia, decreased  
 427 appetite, anxiety, chest pain, sore throat, cardiac failure, confusion and Candida infections. These  
 428 events occurred at rates ranging from 0.2-1.7% in daptomycin-treated patients and at rates of 0.4-  
 429 1.8% in comparator-treated patients.

430 Additional drug-related adverse events (possibly or probably related) that occurred in <1% of  
 431 patients receiving daptomycin in cSSSI trials are as follows:

- 432 *Body as a Whole*: fatigue, weakness, rigors, discomfort, jitteriness, flushing, hypersensitivity
- 433 *Blood/Lymphatic System*: leukocytosis, thrombocytopenia, thrombocytosis, eosinophilia,
- 434 increased international normalized ratio,
- 435 *Cardiovascular System*: supraventricular arrhythmia
- 436 *Dermatologic System*: eczema
- 437 *Digestive System*: abdominal distension, flatulence, stomatitis, jaundice, increased serum lactate
- 438 dehydrogenase
- 439 *Metabolic/Nutritional System*: hypomagnesemia, increased serum bicarbonate, electrolyte
- 440 disturbance
- 441 *Musculoskeletal System*: myalgia, muscle cramps, muscle weakness, osteomyelitis
- 442 *Nervous System*: vertigo, mental status change, paraesthesia
- 443 *Special Senses*: taste disturbance, eye irritation

444 **Laboratory Changes**

445 **Table 6. Incidence (%) of Creatine Phosphokinase (CPK) Elevations From Baseline While on Therapy in**  
 446 **Either Daptomycin or Comparator Treatment Groups in Phase 3 cSSSI Studies**

	All patients				Patients with normal CPK at baseline			
	Daptomycin (N=430)		Comparator (N=459)		Daptomycin (N=374)		Comparator (N=392)	
	%	n	%	n	%	n	%	n
No Increase	90.7%	390	91.1%	418	91.2%	341	91.1%	357
Maximum Value >1x ULN*	9.3%	40	8.9%	41	8.8%	33	8.9%	35
>2x ULN	4.9%	21	4.8%	22	3.7%	14	3.1%	12
>4x ULN	1.4%	6	1.5%	7	1.1%	4	1.0%	4
>5x ULN	1.4%	6	0.4%	2	1.1%	4	0.0%	0
>10x ULN	0.5%	2	0.2%	1	0.2%	1	0.0%	0

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

448 Note: Elevations in CPK observed in patients treated with daptomycin or comparator were not clinically or  
 449 statistically significantly different (p <0.05).

450 In clinical trials 0.2% of patients treated with Cubicin had symptoms of muscle pain or weakness  
451 associated with CPK elevations to greater than 4 times the upper limit of normal. The symptoms  
452 resolved within 3 days and CPK returned to normal within 7-10 days after discontinuing  
453 treatment (see **PRECAUTIONS: Skeletal Muscle**). In Phase 3 comparator-controlled trials,  
454 there was no clinically or statistically significant difference ( $p < 0.05$ ) in the frequency of CPK  
455 elevations between patients treated with Cubicin and those treated with comparator. CPK  
456 elevations in both groups were generally related to medical conditions, for example, skin and  
457 skin structure infection, surgical procedures, or intramuscular injections, and were not associated  
458 with muscle symptoms.

459 There were no substantial differences between Cubicin and the comparators in the frequency or  
460 distribution of changes in other laboratory parameters, regardless of drug relationship.

#### 461 **Post-Marketing Experience**

462 The following adverse reactions have been reported with CUBICIN in worldwide post-marketing  
463 experience, regardless of causality:

464 Immune System Disorders: anaphylaxis

465 Musculoskeletal System: rhabdomyolysis

#### 466 **OVERDOSAGE**

467 In the event of overdosage, supportive care is advised with maintenance of glomerular filtration.  
468 Daptomycin is slowly cleared from the body by hemodialysis (approximately 15% recovered  
469 over 4 hours) or by peritoneal dialysis (approximately 11% recovered over 48 hours).

#### 470 **DOSAGE AND ADMINISTRATION**

##### 471 **Complicated Skin and Skin Structure Infections**

472 Cubicin 4 mg/kg should be administered over a 30-minute period by intravenous infusion in  
473 0.9% sodium chloride injection once every 24 hours for 7-14 days. Doses of Cubicin higher than  
474 4 mg/kg/day have not been studied in Phase 3 controlled clinical trials. In Phase 1 and 2 clinical  
475 studies, CPK elevations appeared to be more frequent when daptomycin was dosed more  
476 frequently than once daily. Therefore, Cubicin should not be dosed more frequently than once a  
477 day.

478 Because daptomycin is eliminated primarily by the kidney, a dosage modification is  
479 recommended for patients with creatinine clearance  $< 30$  mL/min, including patients receiving  
480 hemodialysis or continuous ambulatory peritoneal dialysis (CAPD), as listed in Table 7. The  
481 recommended dosing regimen is 4 mg/kg once every 24 hours for patients with  $CL_{CR} \geq 30$   
482 mL/min and 4 mg/kg once every 48 hours for  $CL_{CR} < 30$  mL/min, including those on  
483 hemodialysis or CAPD. When possible, Cubicin should be administered following hemodialysis  
484 on hemodialysis days (See **CLINICAL PHARMACOLOGY**).



485 **Table 7 Recommended Dosage of Cubicin (daptomycin for injection) in Adult Patients with Renal**  
 486 **Impairment**

Creatinine Clearance	Dosage Regimen
≥ 30 mL/min	4 mg/kg once every 24 hours
<30 mL/min, including hemodialysis or CAPD	4 mg/kg once every 48 hours

487

### 488 **Preparation Of Daptomycin For Administration**

489 Cubicin is supplied in single-use vials containing either 250 or 500 mg daptomycin as a sterile,  
 490 lyophilized powder. The contents of a Cubicin 250 mg vial should be reconstituted with 5 mL of  
 491 0.9% sodium chloride injection. The contents of a Cubicin 500 mg vial should be reconstituted  
 492 with 10 mL of 0.9% sodium chloride injection. Reconstituted Cubicin should be further diluted  
 493 with 0.9% sodium chloride injection to be administered by intravenous infusion over a period of  
 494 30 minutes.

495 Since no preservative or bacteriostatic agent is present in this product, aseptic technique must be  
 496 used in preparation of final intravenous solution. Stability studies have shown that the  
 497 reconstituted solution is stable in the vial for 12 hours at room temperature or up to 48 hours if  
 498 stored under refrigeration at 2 to 8°C (36 to 46°F). The diluted solution is stable in the infusion  
 499 bag for 12 hours at room temperature or 48 hours if stored under refrigeration. The combined  
 500 time (vial and infusion bag) at room temperature should not exceed 12 hours; the combined time  
 501 (vial and infusion bag) under refrigeration, should not exceed 48 hours.

502 Cubicin vials are for single-use only.

503 Parenteral drug products should be inspected visually for particulate matter prior to  
 504 administration.

505 Because only limited data are available on the compatibility of Cubicin with other intravenous  
 506 substances, additives or other medications should not be added to daptomycin single-use vials or  
 507 infused simultaneously through the same intravenous line. If the same intravenous line is used  
 508 for sequential infusion of several different drugs, the line should be flushed with a compatible  
 509 infusion solution before and after infusion with daptomycin.

### 510 **Compatible Intravenous Solutions**

511 Cubicin is compatible with 0.9% sodium chloride injection and lactated Ringer's injection.  
 512 Cubicin is not compatible with dextrose-containing diluents.

### 513 **HOW SUPPLIED**

514 Cubicin (daptomycin for injection) – Pale yellow to light brown lyophilized cake  
 515 Single-use 10 mL capacity vials:  
 516 500 mg/vial: Packages of 1 (NDC 67919-011-01)  
 517 250 mg/vial: Packages of 1 (NDC 67919-010-01)

518 **STORAGE**

519 Store original packages at refrigerated temperatures 2 to 8°C (36 to 46°F); avoid excessive heat.

520 **CLINICAL STUDIES**

521 **Complicated Skin and Skin Structure Infections**

522 Adult patients with clinically documented complicated skin and skin structure infections (Table  
523 8) were enrolled in two randomized, multinational, multicenter, investigator-blinded studies  
524 comparing Cubicin (4 mg/kg IV q24h) with either vancomycin (1 g IV q12h) or a semi-synthetic  
525 penicillin (i.e., nafcillin, oxacillin, cloxacillin, or flucloxacillin; 4-12 g IV per day). Patients  
526 known to have bacteremia at baseline were excluded. Patients with creatinine clearance between  
527 30-70 mL/minute were to receive a lower dose of Cubicin as specified in the protocol; however,  
528 the majority of patients in this subpopulation did not have the dose of daptomycin adjusted.  
529 Patients could switch to oral therapy after a minimum of four days of IV treatment if clinical  
530 improvement was demonstrated.

531 One study was conducted primarily in the United States and South Africa (study 9801), and the  
532 second (study 9901) was conducted at non-US sites only. Both studies were similar in design,  
533 but differed in patient characteristics, including history of diabetes and peripheral vascular  
534 disease. There were a total of 534 patients treated with Cubicin and 558 treated with comparator  
535 in the two studies. The majority (89.7%) of patients received IV medication exclusively.

536 The efficacy endpoints in both studies were the clinical success rates in the intent-to treat (ITT)  
537 population and in the clinically evaluable (CE) population. In study 9801, clinical success rates  
538 in the ITT population were 62.5% (165/264) in patients treated with daptomycin and 60.9 %  
539 (162/266) in patients treated with comparator drugs. Clinical success rates in the CE population  
540 were 76.0% (158/208) in patients treated with Cubicin and 76.7% (158/206) in patients treated  
541 with comparator drugs. In study 9901, clinical success rates in the ITT population were 80.4%  
542 (217/270) in patients treated with daptomycin and 80.5 % (235/292) in patients treated with  
543 comparator drugs. Clinical success rates in the CE population were 89.9% (214/238) in patients  
544 treated with daptomycin and 90.4% (226/250) in patients treated with comparator drugs.

545 The success rates by pathogen for microbiologically evaluable patients are presented in Table 9.

546 **Table 8. Investigator's Primary Diagnosis in the Complicated Skin and Skin Structure Infection Studies**  
 547 **(Population: ITT)**

Parameters	Study 9801	Study 9901	Pooled
	Cubicin/Comparator <sup>a</sup> N=264/N=266	Cubicin/Comparator <sup>a</sup> N=270/N=292	Cubicin/Comparator <sup>a</sup> N=534/N=558
Wound Infection	99 (37.5%)/116 (43.6%)	102 (37.8%)/108 (37.0%)	201 (37.6%)/224 (40.1%)
Major Abscess	55 (20.8%)/43 (16.2%)	59 (21.9%)/65 (22.3%)	114 (21.3%)/108 (19.4%)
Ulcer Infection	71 (26.9%)/75 (28.2%)	53 (19.6%)/68 (23.3%)	124 (23.2%)/143 (25.6%)
Other Infection <sup>b</sup>	39 (14.8%)/32 (12.0%)	56 (20.7%)/51 (17.5%)	95 (17.8%)/83 (14.9%)

548 a. Vancomycin or semi-synthetic penicillins

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

551 **Table 9. Clinical Success Rates by Infecting Pathogen, Primary Comparative Complicated Skin and Skin**  
 552 **Structure Infection Studies (Population: Microbiologically Evaluable)**

Pathogen	Success Rate	
	Cubicin n/N (%)	Comparator <sup>a</sup> n/N (%)
Methicillin-susceptible <i>Staphylococcus aureus</i> (MSSA) <sup>b</sup>	170/198 (85.9)	180/207 (87.0)
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) <sup>b</sup>	21/28 (75.0)	25/36 (69.4)
<i>Streptococcus pyogenes</i>	79/84 (94.0)	80/88 (90.9)
<i>Streptococcus agalactiae</i>	23/27 (85.2)	22/29 (75.9)
<i>Streptococcus dysgalactiae</i> subsp. <i>equisimilis</i>	8/8 (100)	9/11 (81.8)
<i>Enterococcus faecalis</i> (vancomycin-susceptible only) <sup>b</sup>	27/37 (73.0)	40/53 (75.5)

553

554 a. Vancomycin or semi-synthetic penicillins

555 b. As determined by the central laboratory

556 **Rx only**

557 US Patent Nos. 6,468,967; 5,912,226; 4,885,243; 4,874,843; 6,696,412

558 Cubicin is a registered trademark of Cubist Pharmaceuticals, Inc.

559 **Manufactured for:**

560 Cubist Pharmaceuticals, Inc.

561 Lexington, MA 02421

562 **Distributed by:**

563 Integrated Commercialization Solutions (ICS)  
564 Louisville, KY 40229  
565

566 **For all medical inquiries call: (866) 793-2786**

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