

12.3 Pharmacokinetics
The mean pharmacokinetic parameters of tigecycline after single and multiple intravenous doses based on pooled data from clinical pharmacology studies are summarized in Table 3. Intravenous infusions of tigecycline were administered over approximately 30 to 60 minutes.

Table 3. Mean (CV)% Pharmacokinetic Parameters of Tigecycline			
	Single Dose 100 mg (N=224)	Multiple Dose ^a 50 mg every 12h (N=103)	
C _{max} (mcg/mL) ^b	1.45 (22%)	0.87 (27%)	
C _{min} (mcg/mL) ^c	0.90 (30%)	0.63 (15%)	
AUC (mcg•h/mL)	5.19 (36%)	-	
AUC _{0-24h} (mcg•h/mL)	-	4.7 (36%)	
C _{min} (mcg/mL)	-	0.13 (59%)	
t _{1/2} (h)	27.1 (53%)	42.4 (83%)	
CL (L/h)	21.8 (40%)	23.8 (33%)	
CL _r (mL/min)	38.0 (82%)	51.0 (58%)	
V _{ss} (L)	568 (43%)	639 (48%)	

^a 100 mg initially, followed by 50 mg every 12 hours
^b 30-minute infusion
^c 60-minute infusion

Distribution
The *in vitro* plasma protein binding of tigecycline ranges from approximately 71% to 89% at concentrations observed in clinical studies (0.1 to 1.0 mcg/mL). The steady-state volume of distribution of tigecycline averaged 500 to 700 L (7 to 9 L/kg), indicating tigecycline is extensively distributed beyond the plasma volume and into the tissues.

Following the administration of tigecycline 100 mg followed by 50 mg every 12 hours to 33 healthy volunteers, the tigecycline AUC_{0-12h} (134 mcg•h/mL) in alveolar cells was approximately 78-fold higher than the AUC_{0-12h} in the serum, and the AUC_{0-12h} (2.28 mcg•h/mL) in epithelial lining fluid was approximately 32% higher than the AUC_{0-12h} in serum. The AUC_{0-12h} (1.61 mcg•h/mL) of tigecycline in skin blister fluid was approximately 26% lower than the AUC_{0-12h} in the serum of 10 healthy subjects.

In a single-dose study, tigecycline 100 mg was administered to subjects prior to undergoing elective surgery or medical procedure for tissue extraction. Concentrations at 4 hours after tissue extraction were higher in gallbladder (38-fold, n=6), lung (3.7-fold, n=5), and colon (2.3-fold, n=6), and lower in synovial fluid (0.58-fold, n=5), and bone (0.35-fold, n=6) relative to serum. The concentration of tigecycline in these tissues after multiple doses has not been studied.

Elimination
Metabolism
Tigecycline is not extensively metabolized. In *in vitro* studies with tigecycline using human liver microsomes, liver slices, and hepatocytes led to the formation of only trace amounts of metabolites. In healthy male volunteers receiving ¹⁴C-tigecycline, tigecycline was the primary ¹⁴C-labeled material recovered in urine and feces, but a glucuronide, an N-acetyl metabolite, and a tigecycline epimer (each at no more than 10% of the administered dose) were also present.

Tigecycline is a substrate of P-glycoprotein (P-gp) based on an *in vitro* study using a cell line overexpressing P-gp. The potential contribution of P-gp-mediated transport to the *in vivo* disposition of tigecycline is not known.

Excretion
The recovery of total radioactivity in feces and urine following administration of ¹⁴C -tigecycline indicates that 59% of the dose is eliminated by biliary/fecal excretion, and 33% is excreted in urine. Approximately 22% of the total dose is excreted as unchanged tigecycline in urine. Overall, the primary route of elimination is biliary excretion of unchanged tigecycline and its metabolites. Glucuronidation and renal excretion of unchanged tigecycline are secondary routes.

Specific Populations
Hepatic Impairment
In a study comparing 10 patients with mild hepatic impairment (Child Pugh A), 10 patients with moderate hepatic impairment (Child Pugh B), and 5 patients with severe hepatic impairment (Child Pugh C) to 23 age and weight matched healthy control subjects, the single-dose pharmacokinetic disposition of tigecycline was not altered in patients with mild hepatic impairment. However, systemic clearance of tigecycline was reduced by 25% and the half-life of tigecycline was prolonged by 23% in patients with moderate hepatic impairment (Child Pugh B). Systemic clearance of tigecycline was reduced by 55%, and the half-life of tigecycline was prolonged by 43% in patients with severe hepatic impairment (Child Pugh C). Dosage adjustment is necessary in patients with severe hepatic impairment (Child Pugh C) [see Use in Specific Populations (8.6) and Dosage and Administration (2.2)].

Renal Impairment
A single dose study compared 6 subjects with severe renal impairment (creatinine clearance < 30 mL/min), 4 end stage renal disease (ESRD) patients receiving tigecycline 2 hours before hemodialysis, 4 ESRD patients receiving tigecycline 1 hour after hemodialysis, and 6 healthy control subjects. The pharmacokinetic profile of tigecycline was not significantly altered in any of the renally impaired patient groups, nor was tigecycline removed by hemodialysis. No dosage adjustment of tigecycline is necessary in patients with renal impairment or in patients undergoing hemodialysis.

Geriatric Patients
No significant differences in pharmacokinetics were observed between healthy elderly subjects (n=15, age 65 to 75; n=13, age > 75) and younger subjects (n=18) receiving a single 100 mg dose of tigecycline. Therefore, no dosage adjustment is necessary based on age [see Use in Specific Populations (8.5)].

Pediatric Patients
A single-dose safety, tolerability, and pharmacokinetic study of tigecycline in pediatric patients aged 8 to 16 years who recently recovered from infections was conducted. The doses administered were 0.5, 1, or 2 mg/kg. The study showed that for children aged 12 to 16 years

(n = 16) a dosage of 50 mg twice daily would likely result in exposures comparable to those observed in adults with the approved dosing regimen. Large variability observed in children aged 8 to 11 years of age (n = 8) required additional study to determine the appropriate dosage.

A subsequent tigecycline dose-finding study was conducted in 8 to 11 year old patients with cIAI, cSSSI, or CABP. The doses of tigecycline studied were 0.75 mg/kg (n = 17), 1 mg/kg (n = 21), and 1.25 mg/kg (n=20). This study showed that for children aged 8 to 11 years, a 1.2 mg/kg dose would likely result in exposures comparable to those observed in adults resulting with the approved dosing regimen [see Dosage and Administration (2.3)].

Gender
In a pooled analysis of 38 women and 298 men participating in clinical pharmacology studies, there was no significant difference in the mean (± SD) tigecycline clearance between women (20.7 ± 6.5 L/h) and men (22.8 ± 8.7 L/h). Therefore, no dosage adjustment is necessary based on gender.

Race
In a pooled analysis of 73 Asian subjects, 53 Black subjects, 15 Hispanic subjects, 190 White subjects, and 3 subjects classified as "other" participating in clinical pharmacology studies, there was no significant difference in the mean (± SD) tigecycline clearance among the Asian subjects (28.8 ± 8.8 L/h), Black subjects (23 ± 7.8 L/h), Hispanic subjects (24.3 ± 6.5 L/h), White subjects (22.1 ± 8.9 L/h), and "other" subjects (25 ± 4.8 L/h). Therefore, no dosage adjustment is necessary based on race.

Drug Interaction Studies
Digoxin
Tigecycline (100 mg followed by 50 mg every 12 hours) and digoxin (0.5 mg followed by 0.25 mg, orally, every 24 hours) were co-administered to healthy subjects in a drug interaction study. Tigecycline slightly decreased the C_{max} of digoxin by 13%, but did not affect the AUC or clearance of digoxin. This small change in C_{max} did not affect the steady-state pharmacodynamic effects of digoxin as measured by changes in ECG intervals. In addition, digoxin did not affect the pharmacokinetic profile of tigecycline. Therefore, no dosage adjustment of either drug is necessary when tigecycline is administered with digoxin.

Warfarin
Concomitant administration of tigecycline (100 mg followed by 50 mg every 12 hours) and warfarin (25 mg single-dose) to healthy subjects resulted in a decrease in clearance of R-warfarin and S-warfarin by 40% and 23%, an increase in C_{max} by 38% and 43% and an increase in AUC by 68% and 29%, respectively. Tigecycline did not significantly alter the effects of warfarin on INR. In addition, warfarin did not affect the pharmacokinetic profile of tigecycline. However, prothrombin time or other suitable anticoagulation test should be monitored if tigecycline is administered with warfarin.

In vitro studies in human liver microsomes indicate that tigecycline does not inhibit metabolism mediated by any of the following 6 cytochrome P450 (CYP) isoforms: 1A2, 2C8, 2C9, 2C19, 2D6, and 3A4. Therefore, tigecycline is not expected to alter the metabolism of drugs metabolized by these enzymes. In addition, because tigecycline is not extensively metabolized, clearance of tigecycline is not expected to be affected by drugs that inhibit or induce the activity of these CYP450 isoforms.

In vitro studies using Caco-2 cells indicate that tigecycline does not inhibit digoxin flux, suggesting that tigecycline is not a P-glycoprotein (P-gp) inhibitor. This *in vitro* information is consistent with the lack of effect of tigecycline on digoxin clearance noted in the *in vivo* drug interaction study described above.

Tigecycline is a substrate of P-gp based on an *in vitro* study using a cell line overexpressing P-gp. The potential contribution of P-gp-mediated transport to the *in vivo* disposition of tigecycline is not known. Coadministration of P-gp inhibitors (e.g., ketoconazole or cyclosporine) or P-gp inducers (e.g., rifampicin) could affect the pharmacokinetics of tigecycline.

- 12.4 Microbiology**
Mechanism of Action
Tigecycline inhibits protein translation in bacteria by binding to the 30S ribosomal subunit and blocking entry of amino-acyl tRNA molecules into the A site of the ribosome. This prevents incorporation of amino acid residues into elongating peptide chains. In general, tigecycline is considered bacteriostatic; however, tigecycline has demonstrated bactericidal activity against isolates of *S. pneumoniae* and *L. pneumophila*.
Resistance
To date there has been no cross-resistance observed between tigecycline and other antibacterials. Tigecycline is less affected by the two major tetracycline-resistance mechanisms, ribosomal protection and efflux. Additionally, tigecycline is not affected by resistance mechanisms such as beta-lactamases (including extended spectrum beta-lactamases), target-site modifications, macrolide efflux pumps or enzyme target changes (e.g. gyrase/topoisomerases). However, some ESBL-producing isolates may confer resistance to tigecycline via other resistance mechanisms. Tigecycline resistance in some bacteria (e.g. *Acinetobacter calcoaceticus*-*Acinetobacter baumannii* complex) is associated with multi-drug resistant (MDR) efflux pumps.
Interaction with Other Antimicrobials
In vitro studies have not demonstrated antagonism between tigecycline and other commonly used antibacterials.
Antimicrobial Activity
Tigecycline has been shown to be active against most of the following microorganisms, both *in vitro* and in clinical infections [see Indications and Usage (1)].
Gram-positive bacteria
Enterococcus faecalis (vancomycin-susceptible isolates)
Staphylococcus aureus (methicillin-susceptible and -resistant isolates)
Streptococcus agalactiae
Streptococcus anginosus group (includes *S. anginosus*, *S. intermedius*, and *S. constellatus*)
Streptococcus pneumoniae (penicillin-susceptible isolates)
Streptococcus pyogenes

Gram-negative bacteria
Citrobacter freundii
Enterobacter cloacae
Escherichia coli
Haemophilus influenzae
Klebsiella oxytoca
Klebsiella pneumoniae
Legionella pneumophila

Anaerobic bacteria
Bacteroides fragilis
Bacteroides thetaiotaomicron
Bacteroides uniformis
Bacteroides vulgatus
Clostridium perfringens
Peptostreptococcus micros

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 tigecycline against isolates of similar genus or organism group. However, the efficacy of tigecycline in treating clinical infections caused by these bacteria has not been established in adequate and well-controlled clinical trials.

Gram-positive bacteria
Enterococcus avium
Enterococcus casseliflavus
Enterococcus faecalis (vancomycin-resistant isolates)
Enterococcus faecium (vancomycin-susceptible and -resistant isolates)
Enterococcus gallinarum
Listeria monocytogenes
Staphylococcus epidermidis (methicillin-susceptible and -resistant isolates)
Staphylococcus haemolyticus

Gram-negative bacteria
*Acinetobacter baumannii**
Aeromonas hydrophila
Citrobacter koseri
Enterobacter aerogenes
Haemophilus influenzae (ampicillin-resistant)
Haemophilus parainfluenzae
Pasteurella multocida
Serratia marcescens
Stenotrophomonas maltophilia

Anaerobic bacteria
Bacteroides distans
Bacteroides ovatus
Peptostreptococcus spp.
Porphyromonas spp.
Prevotella spp.

Other bacteria
Mycobacterium abscessus
Mycobacterium fortuitum

*There have been reports of the development of tigecycline resistance in *Acinetobacter* infections seen during the course of standard treatment. Such resistance appears to be attributable to an MDR efflux pump mechanism. While monitoring for relapse of infection is important for all infected patients, more frequent monitoring in this case is suggested. If relapse is suspected, blood and other specimens should be obtained and cultured for the presence of bacteria. All bacterial isolates should be identified and tested for susceptibility to tigecycline and other appropriate antimicrobials.

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

- 13 NONCLINICAL TOXICOLOGY**
13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility
Lifetime studies in animals have not been performed to evaluate the carcinogenic potential of tigecycline. No mutagenic or clastogenic potential was found in a battery of tests, including *in vitro* chromosome aberration assay in Chinese hamster ovary (CHO) cells, *in vitro* forward mutation assay in CHO cells (HGPRT locus), *in vitro* forward mutation assays in mouse lymphoma cells, and *in vivo* mouse micronucleus assay. Tigecycline did not affect mating or fertility in rats at exposures up to 5 times the human daily dose based on AUC (28 mcg•hr/mL at 12 mg/kg/day). In female rats, there were no compound-related effects on ovaries or estrous cycles at exposures up to 5 times the human daily dose based on AUC.
13.2 Animal Toxicology and/or Pharmacology
In two week studies, decreased erythrocytes, reticulocytes, leukocytes and platelets, in association with bone marrow hypocellularity, have been seen with tigecycline at exposures of 8 times and 10 times the human daily dose based on AUC in rats and dogs, (AUC of approximately 50 and 60 mcg•hr/mL at doses of 30 and 12 mg/kg/day) respectively. These alterations were shown to be reversible after two weeks of dosing.
- 14 CLINICAL STUDIES**
14.1 Complicated Skin and Skin Structure Infections
Tigecycline was evaluated in adults for the treatment of complicated skin and skin structure infections (cSSSI) in two randomized, double-blind, active-controlled, multinational, multicenter studies (Studies 300 and 305). These studies compared tigecycline (100 mg intravenous initial dose followed by 50 mg every 12 hours) with vancomycin (1 g intravenous every 12 hours)/aztreonam (2 g intravenous every 12 hours) for 5 to 14 days. Patients with complicated deep soft tissue infections including wound infections and cellulitis (≥ 10 cm, requiring surgery/drainage or with complicated underlying disease), major abscesses, infected ulcers, and burns were enrolled in the studies. The primary efficacy endpoint was the clinical response at the test of cure (TOC) visit in the co-primary populations of the clinically evaluable (CE) and clinical modified intent-to-treat (c-mITT) patients. See Table 4. Clinical cure rates at TOC by pathogen in the microbiologically evaluable patients are presented in Table 5.

Table 4. Clinical Cure Rates from Two Studies in Complicated Skin and Skin Structure Infections after 5 to 14 Days of Therapy

	Tigecycline ^a n/N (%)	Vancomycin/Aztreonam ^b n/N (%)
Study 300		
CE	165/199 (82.9)	163/198 (82.3)
c-mITT	209/277 (75.5)	200/260 (76.9)
Study 305		
CE	200/223 (89.7)	201/213 (94.4)
c-mITT	220/261 (84.3)	225/259 (86.9)

^a 100 mg initially, followed by 50 mg every 12 hours
^b Vancomycin (1 g every 12 hours)/Aztreonam (2 g every 12 hours)

Table 5. Clinical Cure Rates by Infecting Pathogen in Microbiologically Evaluable Patients with Complicated Skin and Skin Structure Infections^a

Pathogen	Tigecycline n/N (%)	Vancomycin/Aztreonam n/N (%)
<i>Escherichia coli</i>	29/36 (80.6)	26/30 (86.7)
<i>Enterobacter cloacae</i>	10/12 (83.3)	15/15 (100)
<i>Enterococcus faecalis</i> (vancomycin-susceptible only)	15/21 (71.4)	19/24 (79.2)
<i>Klebsiella pneumoniae</i>	12/14 (85.7)	15/16 (93.8)
Methicillin-susceptible <i>Staphylococcus aureus</i> (MSSA)	124/137 (90.5)	113/120 (94.2)
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	79/95 (83.2)	46/57 (80.7)
<i>Streptococcus agalactiae</i>	8/8 (100)	11/14 (78.6)
<i>Streptococcus anginosus</i> gr ^b	17/21 (81.0)	9/10 (90.0)
<i>Streptococcus pyogenes</i>	31/32 (96.9)	24/27 (88.9)
<i>Bacteroides fragilis</i>	7/9 (77.8)	4/5 (80.0)

^a Two cSSSI pivotal studies and two Resistant Pathogen studies
^b Includes *Streptococcus anginosus*, *Streptococcus intermedius*, and *Streptococcus constellatus*

- 14.2 Complicated Intra-abdominal Infections**
Tigecycline was evaluated in adults for the treatment of complicated intra-abdominal infections (cIAI) in two randomized, double-blind, active-controlled, multinational, multicenter studies (Studies 301 and 306). These studies compared tigecycline (100 mg intravenous initial dose followed by 50 mg every 12 hours) with imipenem/cilastatin (500 mg intravenous every 6 hours) for 5 to 14 days. Patients with complicated diagnoses including appendicitis, cholecystitis, diverticulitis, gastric/duodenal perforation, intra-abdominal abscess, perforation of intestine, and peritonitis were enrolled in the studies. The primary efficacy endpoint was the clinical response at the TOC visit for the co-primary populations of the microbiologically evaluable (ME) and the microbiologic modified intent-to-treat (m-mITT) patients. See Table 6. Clinical cure rates at TOC by pathogen in the microbiologically evaluable patients are presented in Table 7.

Table 6. Clinical Cure Rates from Two Studies in Complicated Intra-abdominal Infections after 5 to 14 Days of Therapy

	Tigecycline ^a n/N (%)	Imipenem/Cilastatin ^b n/N (%)
Study 301		
ME	199/247 (80.6)	210/255 (82.4)
m-mITT	227/309 (73.5)	244/312 (78.2)
Study 306		
ME	242/265 (91.3)	232/258 (89.9)
m-mITT	279/322 (86.6)	270/319 (84.6)

^a 100 mg initially, followed by 50 mg every 12 hours
^b Imipenem/Cilastatin (500 mg every 6 hours)

Table 7. Clinical Cure Rates by Infecting Pathogen in Microbiologically Evaluable Patients with Complicated Intra-abdominal Infections^a

Pathogen	Tigecycline n/N (%)	Imipenem/Cilastatin n/N (%)
<i>Citrobacter freundii</i>	12/16 (75.0)	3/4 (75.0)
<i>Enterobacter cloacae</i>	15/17 (88.2)	16/17 (94.1)
<i>Escherichia coli</i>	284/336 (84.5)	297/342 (86.8)
<i>Klebsiella oxytoca</i>	19/20 (95.0)	17/19 (89.5)
<i>Klebsiella pneumoniae</i>	42/47 (89.4)	46/53 (86.8)
<i>Enterococcus faecalis</i>	29/38 (76.3)	35/47 (74.5)
Methicillin-susceptible <i>Staphylococcus aureus</i> (MSSA)	26/28 (92.9)	22/24 (91.7)
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	16/18 (88.9)	1/3 (33.3)
<i>Streptococcus anginosus</i> gr ^b	101/119 (84.9)	60/79 (75.9)
<i>Bacteroides fragilis</i>	68/88 (77.3)	59/73 (80.8)
<i>Bacteroides thetaiotaomicron</i>	36/41 (87.8)	31/36 (86.1)
<i>Bacteroides uniformis</i>	12/17 (70.6)	14/16 (87.5)
<i>Bacteroides vulgatus</i>	14/16 (87.5)	4/6 (66.7)
<i>Clostridium perfringens</i>	18/19 (94.7)	20/22 (90.9)
<i>Peptostreptococcus micros</i>	13/17 (76.5)	8/11 (72.7)

^a Two cIAI pivotal studies and two Resistant Pathogen studies
^b Includes *Streptococcus anginosus*, *Streptococcus intermedius*, and *Streptococcus constellatus*

- 14.3 Community-Acquired Bacterial Pneumonia**
Tigecycline was evaluated in adults for the treatment of community-acquired bacterial pneumonia (CABP) in two randomized, double-blind, active-controlled, multinational, multicenter studies (Studies 1 and 2). These studies compared tigecycline (100 mg intravenous initial dose followed by 50 mg every 12 hours) with levofloxacin (500 mg intravenous every 12 or 24 hours). In one study (Study 1), after at least 3 days of intravenous therapy, a switch to oral levofloxacin (500 mg daily) was permitted for both treatment arms. Total therapy was 7 to 14 days. Patients with community-acquired bacterial pneumonia who required hospitalization and intravenous therapy were enrolled in the studies. The primary efficacy endpoint was the clinical response at the test of cure (TOC) visit in the co-primary populations of the clinically evaluable (CE) and clinical modified intent-to-treat (c-mITT) patients. See Table 8. Clinical cure rates at TOC by pathogen in the microbiologically evaluable patients are presented in Table 9.

Table 8. Clinical Cure Rates from Two Studies in Community-Acquired Bacterial Pneumonia after 7 to 14 Days of Total Therapy

	Tigecycline ^a n/N (%)	Levofloxacin ^b n/N (%)	95% CI ^c
Study 1 ^d			
CE	125/138 (90.6)	136/156 (87.2)	(-4.4, 11.2)
c-mITT	149/191 (78)	158/203 (77.8)	(-8.5, 8.9)
Study 2			
CE	128/144 (88.9)	116/136 (85.3)	(-5, 12.2)
c-mITT	170/203 (83.7)	163/200 (81.5)	(-5.6, 10.1)

^a 100 mg initially, followed by 50 mg every 12 hours
^b Levofloxacin (500 mg intravenous every 12 or 24 hours)
^c 95% confidence interval for the treatment difference
^d After at least 3 days of intravenous therapy, a switch to oral levofloxacin (500 mg daily) was permitted for both treatment arms in Study 1.

Table 9. Clinical Cure Rates by Infecting Pathogen in Microbiologically Evaluable Patients with Community-Acquired Bacterial Pneumonia^a

Pathogen	Tigecycline n/N (%)	Levofloxacin n/N (%)
<i>Haemophilus influenzae</i>	14/17 (82.4)	13/16 (81.3)
<i>Legionella pneumophila</i>	10/10 (100.0)	6/6 (100.0)
<i>Streptococcus pneumoniae</i> (penicillin-susceptible only) ^b	44/46 (95.7)	39/44 (88.6)

^a Two CABP studies
^b Includes cases of concurrent bacteremia [cure rates of 20/22 (90.9%) versus 13/18 (72.2%) for tigecycline and levofloxacin respectively]

To further evaluate the treatment effect of tigecycline, a post-hoc analysis was conducted in CABP patients with a higher risk of mortality, for whom the treatment effect of antibiotics is supported by historical evidence. The higher-risk group included CABP patients from the two studies with any of the following factors:

- Age ≥ 50 years
- PSI score ≥ 3
- *Streptococcus pneumoniae* bacteremia

The results of this analysis are shown in Table 10. Age ≥ 50 was the most common risk factor in the higher-risk group.

Table 10. Post-hoc Analysis of Clinical Cure Rates in Patients with Community-Acquired Bacterial Pneumonia Based on Risk of Mortality^a

	Tigecycline n/N (%)	Levofloxacin n/N (%)	95% CI ^b
Study 1 ^c			
CE			
Higher risk			
Yes	93/103 (90.3)	84/102 (82.4)	(-2.3, 18.2)
No	32/35 (91.4)	52/54 (96.3)	(-20.8, 7.1)
c-mITT			
Higher risk			
Yes	111/142 (78.2)	100/134 (74.6)	(-6.9, 14)
No	38/49 (77.6)	58/69 (84.1)	(-22.8, 8.7)
Study 2			
CE			
Higher risk			
Yes	95/107 (88.8)	68/85 (80)	(-2.2, 20.3)
No	33/37 (89.2)	48/51 (94.1)	(-21.1, 8.6)
c-mITT			
Higher risk			
Yes	112/134 (83.6)	93/120 (77.5)	(-4.2, 16.4)
No	58/69 (84.1)	70/80 (87.5)	(-16.2, 8.8)

^a Patients at higher risk of death include patients with any one of the following: ≥ 50 years of age, PSI score ≥ 3, or bacteremia due to *Streptococcus pneumoniae*
^b 95% confidence interval for the treatment difference
^c After at least 3 days of intravenous therapy, a switch to oral levofloxacin (500 mg daily) was permitted for both treatment arms in Study 1.

- 16 HOW SUPPLIED/STORAGE AND HANDLING**

Tigecycline for injection, USP is supplied in a single dose 10 mL glass vial, containing 50 mg tigecycline lyophilized powder for reconstitution.

Product Code	Unit of Sale	Strength	Each
961110	NDC 63323-960-10 Unit of 10	50 mg per vial	NDC 63323-960-01 10 mL Single Dose Vial

Prior to reconstitution, Tigecycline for injection, USP should be stored at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

The reconstituted solution of Tigecycline for injection, USP may be stored at room temperature (not to exceed 25°C/77°F) for up to 24 hours (up to 6 hours in the vial and the remaining time in the intravenous bag) [see Dosage and Administration (2.1)].

The container closure is not made with natural rubber latex.

- 17 PATIENT COUNSELING INFORMATION**
• Advise patients, their families, or caregivers that diarrhea is a common problem caused by antibacterial drugs. Sometimes, frequent watery or bloody diarrhea may occur and may be a sign of a more serious intestinal infection. If severe watery or bloody diarrhea develops, tell them to contact his or her healthcare provider [see Warnings and Precautions (5