Oritavancin activity tested against European staphylococcal clinical isolates and resistant subsets including those with reduced susceptibility to daptomycin, teicoplanin or vancomycin (2010–2014)

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Abstract

Background: Oritavancin was approved by the United States FDA (2014) and European Medicines Agency (2015) for the treatment of acute bacterial skin and skin structure infections. This study assessed the in vitro activity of oritavancin and comparator agents against staphylococcal clinical isolates (2010 - 2014), including subsets of isolates exhibiting decreased susceptibility to

Material/Methods: A total of 3,285 methicillinresistant S. aureus (MRSA) and 1,358 methicillin-resistant coagulase-negative staphylococci (CoNS) were collected from 12 European countries (39 sites). Russia (three sites), Turkey (three sites) and Israel (one site). Isolates were submitted to a monitoring laboratory as part of the SENTRY Antimicrobial Surveillance Program. Identification was confirmed and susceptibility testing was performed by reference broth microdilution methods. MIC interpretation used EUCAST criteria. Isolates were stratified according to daptomycin, teicoplanin and vancomycin MIC results. solates displaying phenotypic resistance to at least three classes of antibacterial agents (in addition to methicillin) were considered as multidrug-resistant (MDR).

Results: Oritavancin inhibited 99.8% of all MRSA at the susceptible breakpoint (≤0.12 mg/L). A total of 30.1% and 1.9% of MRSA displayed a MDR phenotype and decreased susceptibility to vancomycin (vancomycin MIC = 2 ma/L), respectively; only 0.2% of MRSA were daptomycin non-susceptible. S. aureus with decreased susceptibility to vancomycin or non-susceptible to daptomycin had oritavancin MIC₅₀ results (MIC₅₀, 0.06 mg/L) two-fold higher than the susceptible counterparts (MIC₅₀, 0.03 mg/L). All eight isolates of MRSA with decreased susceptibility to daptomycin were susceptible to oritavancin, linezolid, teicoplanin and vancomycin. Oritavancin and linezolid (93.7 - 98.4% susceptible) were active against MRSA displaying a vancomycin MIC of 2 mg/L, while teicoplanin (79.4% susceptible, EUCAST criteria) and daptomycin (88.9% susceptible) had marginal coverage. Overall, oritavancin (MIC_{50/90}, 0.03/0.06 mg/L) was the most potent agent against CoNS, followed by daptomycin (MIC $_{50/90}$, 0.5/0.5 mg/L; 99.9% susceptible), linezolid (MIC $_{50/90}$, 0.5/1 mg/L; 99.2% susceptible) and vancomycin (MIC_{50/90}, 2/2 mg/L; 100.0% susceptible). Whereas teicoplanin-resistant CoNS had oritavancin MIC values (MIC_{50/90}, 0.06/0.12 mg/L) that were two-fold higher than those of teicoplanin-susceptible isolates (MIC_{50/9} 0.03/0.06 mg/L), oritavancin inhibited 99.5% of CoNS at ≤0.12 mg/L and all isolates at 0.25 mg/L. Oritavancin (MIC_{50/90}, 0.06/0.12 mg/L), daptomycin (MIC_{50/90}, 0.5/0.5 mg/L; 100.0% susceptible), linezolid (MIC_{50/90}, 0.5/1 mg/L; 98.5% susceptible) and vancomycin (MIC_{50/90}, 2/2 mg/L; 100.0% susceptible) had in vitro activity against teicoplanin-resistant CoNS, Oritavancin (MIC_{50/00}, 0.03/0.06 mg/L), linezolid (98.8 - 99.7% susceptible) and vancomycin (100.0% susceptible) were active against staphylococcal isolates showing a MDR phenotype

Conclusions: Oritavancin demonstrated potent in vitro activity against this large collection of MRSA and CoNS (including MDR isolates and those displaying decreased susceptibility to clinically available agents) from Europe and adjacent regions. Oritavancin was consistently more potent than the tested comparator

Introduction

Antimicrobial resistance in bacterial pathogens remains a growing problem worldwide. However, there has been an overall decrease in the incidence rate of invasive methicillin-resistant Staphylococcus aureus (MRSA) infections in many European countries. In contrast, species of coagulase-negative staphylococci (CoNS), previously regarded as contaminants, have gained considerable attention in the last decade as an important pathogen which often exhibits a multidrug-resistant (MDR) phenotype (see Tables 1 and 2). In fact, Staphylococcus epidermidis isolates from Greece demonstrating a linezolid dependence phenotype have been recently reported, as well as outbreaks of linezolid-resistant

Oritavancin (ORBACTIV™, oritavancin for injection) is approved by the Food and Drug Administration (FDA) and European Medicines Agency for the treatment of adults with acute bacterial skin and skin structure infections (ABSSSIs). Oritavancin has demonstrated potent in vitro activity against staphylococci, enterococci and streptococci. In this study, the in vitro activity of oritavancin and comparator agents was assessed against a contemporary (2010 -2014) collection of staphylococcal clinical isolates, including subsets of isolates exhibiting a MDR phenotype or decreased susceptibility to vancomycin, teicoplanin or daptomycin

Methods

Bacterial strain collection. A total of 3,285 MRSA and 1,358 methicillin-resistant CoNS (MRCoNS) were collected from 12 European countries (39 sites). Russia (three sites). Turkey (three sites) and Israel (one site) during 2010 - 2014. These isolates were submitted to the monitoring laboratory (JMI Laboratories; North Liberty, Iowa, USA) as part of the SENTRY Antimicrobial Surveillance Programme. Isolates were primarily identified by the participating laboratory and identification confirmed by the reference monitoring laboratory (JMI Laboratories) by standard algorithms and supported by Matrix Assisted Laser Desorption Ionization Time-of-Flight (MALDI-TOF) (Bruker Daltonics, Bremen,

Antimicrobial susceptibility test methods. Isolates were tested for susceptibility by broth microdilution

following the Clinical and Laboratory Standards Institute (CLSI) M07-A10 document. Testing was performed using panels manufactured by Thermo Fisher Scientific (Oakwood Village, Ohio, USA). These panels provide oritavancin results equivalent to the CLSI-approved broth microdilution method supplemented with 0.002% polysorbate-80. Bacterial inoculum density was monitored by colony counts to assure an adequate number of cells for each testing event. Validation of the MIC values was performed by concurrent testing of CLSI-recommended quality control (QC) reference strains (S. aureus ATCC 29213 and Enterococcus faecalis ATCC 29212). All QC results were within published acceptable ranges (M100-S26).

MIC interpretations were based on the CLSI (M100-S26) and European Committee on Antimicrobial Susceptibility Testing (EUCAST; 2016) breakpoint criteria, as available. The in vitro activities of oritavancin and comparator agents were evaluated according to the daptomycin, teicoplanin and vancomycin MIC results (EUCAST criteria). Moreover, MRSA and MRCoNS isolates displaying phenotypic resistance to at least three other classes of drugs (except for daptomycin; non-susceptible [MIC >1 mg/L] phenotypes were included) were considered as MDR

Results

- The collection utilized in this study consisted of 3.285 MRSA collected from various clinical specimen types in hospitalised patients in Europe and the USA. A total of 0.2% of isolates were daptomycinnon-susceptible and 1.9% had elevated vancomycin MIC results (i.e. 2 mg/L). In addition, 30.1% of MRSA isolates exhibited a MDR phenotype (Table 1).
- Among the 1,358 MRCoNS, 19.3% were teicoplaninresistant and 65.0% demonstrated a MDR phenotype (Tables 1 and 2).
- MRSA isolates with decreased susceptibility to vancomycin or non-susceptibility to daptomycin had oritavancin MIC₅₀ results (MIC₅₀, 0.06 mg/L) two-fold higher than those obtained from the more susceptible counterparts (MIC $_{50/90}$, 0.03/0.06 mg/L; **Table 1**).
- All eight MRSA with decreased susceptibility to daptomycin were susceptible to oritavancin (MIC, 0.06 - 0.12 mg/L), linezolid (MIC, 0.5 - 2 mg/L) and vancomycin (MIC, 1 - 2 mg/L). Teicoplanin (MIC, ≤4 mg/L) had a low susceptibility rate result against this strain set (62.5% susceptible [EUCAST]; data not
- Oritavancin (all MRSA inhibited at ≤0.25 mg/L; 93.7% susceptible) and linezolid (98.4% susceptible) were active against MRSA displaying a vancomycin MIC of 2 mg/L, while teicoplanin (79.4% susceptible EUCAST criteria) and daptomycin (88.9% susceptible) had marginal coverage (Table 2).

- \bullet Overall, oritavancin (MIC $_{50/90},\,0.03/0.06$ mg/L) was the most potent agent against MRCoNS, followed by daptomycin (MIC_{50/90}, 0.25 - 0.5/0.5 mg/L), linezolid $(MIC_{50/90}, 0.5/1 \text{ mg/L})$ and vancomycin $(MIC_{50/90}, 2/2 \text{ mg/L})$ mg/L; data not shown)
- Teicoplanin-resistant MRCoNS had oritavancin MIC values (MIC_{50/90}, 0.06/0.12 mg/L) that were two-fold higher than those of teicoplanin-susceptible isolates (MIC_{50/90}, 0.03/0.06 mg/L); however, oritavancin inhibited 99.5% of the MRCoNS population at ≤0.12 mg/L and all isolates at ≤0.25 mg/L (Tables 1 and 2).
- Oritavancin (MIC_{50/90}, 0.06/0.12 mg/L), daptomycin (MIC_{50/90}, 0.5/0.5 mg/L; 100.0% susceptible), linezolid (MIC_{50/90}, 0.5/1 mg/L; 98.5% susceptible) and vancomycin (MIC_{50/90}, 2/2 mg/L; 100.0% susceptible) demonstrated in vitro activity against teicoplanin-resistant MRCoNS.
- Oritavancin (MIC_{50/90}, 0.03/0.06 mg/L), linezolid (98.8 - 99.7% susceptible), daptomycin (99.4 - 100.0% susceptible) and vancomycin (100.0% susceptible) were as active against staphylococcal isolates showing a MDR phenotype as they were against non-MDR isolates (Table 2).

Table 1. Antimicrobial activity and MIC distribution for oritavancin against contemporary (2010 – 2014) staphylococcal clinical isolates displaying several antimicrobial susceptibility phenotypes.

Phenotype ^a		g/L)	Number (cumulative %) inhibited at oritavancin MIC (mg/L)					
(no tested)	50%	90%	≤0.008	0.015	0.03	0.06	0.12	0.25
MRSA (3,285)	0.03	0.06	78 (2.4)	847 (28.2)	1401 (70.8)	727 (92.9)	224 (<u>99.8</u>)	8 (100.0)
DAP-S (MIC ≤1 mg/L; 3,274)	0.03	0.06	78 (2.4)	847 (28.3)	1,399 (71.0)	722 (93.0)	220 (99.8)	8 (100.0)
DAP-NS (MIC = 2 mg/L ; 8)	0.06	-	0 (0.0)	0 (0.0)	0 (0.0)	5 (62.5)	3 (100.0)	
VAN MIC ≤1 mg/L; 3,222)	0.03	0.06	78 (2.4)	846 (28.7)	1,386 (71.7)	698 (93.4)	210 (<u>99.9</u>)	4 (100.0)
VAN MIC = 2 mg/L; 63)	0.06	0.12	0 (0.0)	1 (1.6)	15 (25.4)	29 (71.4)	14 (<u>93.7</u>)	4 (100.0)
Non-MDR (2,297)	0.03	0.06	49 (2.1)	614 (28.9)	989 (71.9)	504 (93.9)	138 (<u>99.9</u>)	3 (100.0)
MDR (988)	0.03	0.06	29 (2.9)	233 (26.5)	412 (68.2)	223 (90.8)	86 (<u>99.5</u>)	5 (100.0)
MRCoNS (1,358)	0.03	0.06	174 (12.8)	173 (25.6)	518 (63.7)	407 (93.7)	79 (99.5)	7 (100.0)
TEC-S (MIC, ≤4 mg/L; 1,096)	0.03	0.06	173 (15.8)	162 (30.6)	453 (71.9)	269 (96.4)	39 (100.0)	
TEC-R (MIC, >4 mg/L; 262)	0.06	0.12	2 (0.8)	11 (5.0)	65 (29.8)	137 (82.1)	40 (97.3)	7 (100.0)
Non-MDR (476)	0.03	0.06	84 (17.6)	77 (33.8)	181 (71.8)	114 (95.8)	18 (99.6)	2 (100.0)
MDR (883)	0.03	0.06	91 (10.3)	96 (21.2)	337 (59.3)	293 (92.5)	61 (99.4)	5 (100.0)

a. MRSA = methicillin-resistant S. aureus; DAP = daptomycin; VAN = vancomycin; TEC = teicoplanin; S = susceptible; NS = non-susceptible; R = resistant; MRCoNS = methicillin-resistant coagulase-negative staphylococci; MDR = resistance to at least three other classes of drugs (except for daptomycin; non susceptible [MIC >1 mg/L] phenotypes were included) in addition to methicillin; criteria for susceptibility were those published by EUCAST (2016). Underlined rates represent percentages of susceptibility for oritavancin considering EUCAST breakpoints

Table 2. Antimicrobial activity of oritavancin and comparator agents against contemporary (2010 – 2014) clinical isolates displaying several antimicrobial susceptibility phenotypes.

%Susceptible / %Intermediate / %Resistantb

EUCAST

MIC (mg/L)

50% 90%

Organism (no. tested)

Antimicrobial agenta

	Range	50%	90%		CLSI			EUCAS	•
MRSA with vancomyci	in MIC of ≤1 m	na/L (3.2	22)						
Oritavancin	≤0.008 — 0.25	0.03	0.06	99.9	_	_b	-	_	
Clindamycin	≤0.25>2	≤0.25	>2	70.2	0.2	29.6	69.8	0.4	
Daptomycin	≤0.06 — 2	0.25	0.5	>99.9	-		>99.9	-	
Erythromycin	≤0.25 — >4	>4	>4	33.2	3.3	63.5	33.5	1.1	
	≤0.5 — >4	>4	>4		1.1	84.7	14.2		
Levofloxacin				14.2	1.1			1.1	
Linezolid .	≤0.12 — 8	1	1	99.9	-	0.1	99.9	-	
Teicoplanin	≤2 — 4	≤2	≤2	100.0	0.0	0.0	99.8	-	
Tetracycline	≤0.5 — >8	≤0.5	>8	85.4	1.5	13.1	84.7	0.4	
TMP-SMX	≤0.5 — >4	≤0.5	≤0.5	98.5	-	1.5	98.5	0.3	
Vancomycin	0.25 — 1	1	1	100.0	0.0	0.0	100.0	-	
MRSA with vancomyci	in MIC of 2 mg	1/1 (63)							
Oritavancin	0.015 — 0.25	0.06	0.12	93.7	_	_b	-	_	
Clindamycin	≤0.25 >2	≤0.25	>2	53.2	1.6	45.2	51.6	1.6	
Daptomycin	0.25 — 2	0.5	2	88.9	-	.0.2	88.9	-	
Erythromycin	≤0.25 — >4	>4	>4	25.4	7.9	66.7	25.4	4.8	
Levofloxacin	≤0.12 — >4	>4	>4	4.8	0.0	95.2	4.8	0.0	
			24 1		0.0				
Linezolid	0.25 — 8	1		98.4	-	1.6	98.4	-	
Teicoplanin	≤2 — 16	≤2_	4	98.4	1.6	0.0	79.4		
Tetracycline	≤0.5 — >8	≤0.5	>8	76.2	1.6	22.2	71.4	4.8	
TMP-SMX	≤0.5 — >4	≤0.5	1	95.2	-	4.8	95.2	0.0	
Vancomycin	2 — 2	2	2	100.0	0.0	0.0	100.0	-	
MDR MRSA (988)									
Oritavancin	≤0.008 — 0.25	0.03	0.06	99.5	-	_b	-	-	
Clindamycin	≤0.25 — >2	>2	>2	4.7	0.3	95.0	3.9	0.8	
Daptomycin	≤0.06 — 2	0.25	0.5	99.4	-		99.4	-	
Erythromycin	≤0.12 — >4	>4	>4	0.4	1.4	98.2	0.4	0.2	
Levofloxacin	0.5 — >4	>4	>4	0.1	1.3	98.6	0.1	1.3	
	≤0.12 — 8	1	1	99.7			99.7		
Linezolid					- 1	0.3		-	
Teicoplanin	≤2 — 16	≤2	≤2	99.9	0.1	0.0	98.2	-	
Tetracycline	≤0.5 — >8 ≤0.5 — >4	≤0.5	>8_	81.8	0.4	17.8	80.3	1.2	
TMP-SMX		≤0.5	≤0.5	95.2	-	4.8	95.2	0.8	
Vancomycin	0.25 — 2	1	1	100.0	0.0	0.0	100.0	-	
Teicoplanin-susceptib	le MRCoNS (1	.096)							
	<0.000 0.40	0.03	0.06		-	-	_	_	
Oritavancin	≥0.008 — 0.12	0.03							
Oritavancin Clindamycin	≤0.008 — 0.12 ≤0.25 — >2	0.03 ≤0.25		62.9	0.8	36.3	60.5	2.4	
Clindamycin	≤0.25 >2	≤0.25	>2		0.8	36.3		2.4	
Clindamycin Daptomycin	≤0.25 — >2 ≤0.06 — 2	≤0.25 0.25	>2 0.5	99.9	-	-	99.9	-	
Clindamycin Daptomycin Erythromycin	≤0.25 — >2 ≤0.06 — 2 ≤0.25 — >4	≤0.25 0.25 >4	>2 0.5 >4	99.9 23.5	0.8	- 75.7	99.9 23.7	0.4	
Clindamycin Daptomycin Erythromycin Levofloxacin	≤0.25 — >2 ≤0.06 — 2 ≤0.25 — >4 ≤0.5 — >4	≤0.25 0.25 >4 4	>2 0.5 >4 >4	99.9 23.5 24.3	-	- 75.7 69.2	99.9 23.7 24.3	-	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid	≤0.25 — >2 ≤0.06 — 2 ≤0.25 — >4 ≤0.5 — >4 ≤0.12 — >8	≤0.25 0.25 >4 4 0.5	>2 0.5 >4 >4 1	99.9 23.5 24.3 99.5	0.8 6.6	75.7 69.2 0.5	99.9 23.7 24.3 99.5	0.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin	≤0.25 — >2 ≤0.06 — 2 ≤0.25 — >4 ≤0.5 — >4 ≤0.12 — >8 ≤2 — 4	≤0.25 0.25 >4 4 0.5 ≤2	>2 0.5 >4 >4 1 4	99.9 23.5 24.3 99.5 100.0	0.8 6.6 -	75.7 69.2 0.5 0.0	99.9 23.7 24.3 99.5 100.0	0.4 6.6	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline	$\le 0.25 -> 2$ $\le 0.06 - 2$ $\le 0.25 -> 4$ $\le 0.5 -> 4$ $\le 0.12 -> 8$ $\le 2 - 4$ $\le 0.5 -> 8$	≤0.25 0.25 >4 4 0.5 ≤2	>2 0.5 >4 >4 1 4 >8	99.9 23.5 24.3 99.5 100.0 81.9	0.8 6.6	75.7 69.2 0.5 0.0 15.6	99.9 23.7 24.3 99.5 100.0 70.1	0.4 6.6 - - 9.5	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX	\$0.25>2 \$0.062 \$0.25>4 \$0.5>4 \$0.12>8 \$24 \$0.5>8 \$0.5>4	≤0.25 0.25 >4 4 0.5 ≤2 1	>2 0.5 >4 >4 1 4 >8 >4	99.9 23.5 24.3 99.5 100.0 81.9 49.5	0.8 6.6 - 0.0 2.5	75.7 69.2 0.5 0.0 15.6 50.5	99.9 23.7 24.3 99.5 100.0 70.1 49.5	0.4 6.6	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline	$\le 0.25 -> 2$ $\le 0.06 - 2$ $\le 0.25 -> 4$ $\le 0.5 -> 4$ $\le 0.12 -> 8$ $\le 2 - 4$ $\le 0.5 -> 8$	≤0.25 0.25 >4 4 0.5 ≤2	>2 0.5 >4 >4 1 4 >8	99.9 23.5 24.3 99.5 100.0 81.9	0.8 6.6 -	75.7 69.2 0.5 0.0 15.6	99.9 23.7 24.3 99.5 100.0 70.1	0.4 6.6 - - 9.5	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX	\$0.25>2 \$0.062 \$0.25>4 \$0.5>4 \$0.12>8 \$24 \$0.5>8 \$0.5>4 \$0.122	≤0.25 0.25 >4 4 0.5 ≤2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4	99.9 23.5 24.3 99.5 100.0 81.9 49.5	0.8 6.6 - 0.0 2.5	75.7 69.2 0.5 0.0 15.6 50.5	99.9 23.7 24.3 99.5 100.0 70.1 49.5	0.4 6.6 - - 9.5	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25	≤0.25 0.25 >4 4 0.5 ≤2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 - 0.0 2.5 - 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	9.5 22.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2	≤0.25 0.25 >4 4 0.5 ≤2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 - 0.0 2.5	75.7 69.2 0.5 0.0 15.6 50.5	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	0.4 6.6 - - 9.5	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 2 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2 \$0.12 - 1	≤0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2)	>2 0.5 >4 >4 1 4 >8 >4 2 0.12 >2 0.5	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	9.5 22.4 -	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2	≤0.25 0.25 >4 4 0.5 ≤2 1 4 2	>2 0.5 >4 >4 1 4 8 >4 2 0.12 >2 0.5 >4	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 - 0.0 2.5 - 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	9.5 22.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 2 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2 \$0.12 - 1	≤0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2)	>2 0.5 >4 >4 1 4 >8 >4 2 0.12 >2 0.5	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	9.5 22.4 -	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 4 \$0.5 -> 4	≤0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2) 0.06 ≤0.25 0.5 >4 >4	>2 0.5 >4 >4 1 4 8 >4 2 0.12 >2 0.5 >4 >4	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 - 0.0 2.5 - 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0	0.4 6.6 - 9.5 22.4 - 4.6 -	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.5 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2 \$0.25 -> 4 \$0.5 -> 4 \$0.5 -> 8	\$0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2 0.06 ≤0.25 0.5 >4 0.5	>2 0.5 >4 >4 1 4 8 8 2 2 0.12 >2 0.5 >4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0	0.8 6.6 - 0.0 2.5 - 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 	0.4 6.6 - 9.5 22.4 - 4.6 0.0 2.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.08 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 8 8 - 5 - 8 8 - 5 - 5 - 6 \$0.25 -> 8 8 - 5 - 5 - 6 \$0.25 -> 8 8 - 5 - 5 - 6	≥0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2) 0.06 ≤0.25 0.5 >4 4 0.05 8 0.25 0.5 8	>2 0.5 >4 >4 >1 1 4 8 >4 2 0.12 >2 0.5 >4 1 1 >8	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 59.4 100.0 17.2 14.5 98.5 88.3	0.8 6.6 0.0 2.5 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 2 \$0.12 - 1 \$0.25 -> 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8	\$0.25 0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 4 0.5 8 0.25	>2 0.5 >4 >4 >4 1 4 8 8 4 2 0.12 >2 0.5 >4 >4 1 8 8 8 8	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 17.2 14.5 98.5 88.3 84.4	0.8 6.6 - 0.0 2.5 - 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 17.2 14.5 98.5 0.0 65.6	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 \$0.08 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 8 8 -8 \$0.5 -> 8 \$0.5 -> 4	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 >4 4 0.5 \$2 1 4 2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4 2 0.12 >2 0.5 >4 4 8 >8 >4 2 9 9 9 9 9 9 9 9 9	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 - 59.4 100.0 17.2 14.5 98.5 88.3 84.4 45.8	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 2 \$0.12 - 1 \$0.25 -> 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8	\$0.25 0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 4 0.5 8 0.25	>2 0.5 >4 >4 >4 1 4 8 8 4 2 0.12 >2 0.5 >4 >4 1 8 8 8 8	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 17.2 14.5 98.5 88.3 84.4	0.8 6.6 0.0 2.5 0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 17.2 14.5 98.5 0.0 65.6	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 \$0.08 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 8 8 -8 \$0.5 -> 8 \$0.5 -> 4	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 >4 4 0.5 \$2 1 4 2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4 2 0.12 >2 0.5 >4 4 8 >8 >4 2 9 9 9 9 9 9 9 9 9	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 - 59.4 100.0 17.2 14.5 98.5 88.3 84.4 45.8	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 4 \$0.25 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 4	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 >4 4 0.5 \$2 1 4 2 1 4 2	>2 0.5 >4 >4 1 4 >8 >4 2 0.12 >2 0.5 >4 4 8 >8 >4 2 9 9 9 9 9 9 9 9 9	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 - 59.4 100.0 17.2 14.5 98.5 88.3 84.4 45.8	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline Trythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin MDR MRCONS (883)	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 4 \$0.25 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 4	\$0.25 0.25 0.25 >4 4 0.5 \$2 1 4 2 0.06 \$0.25 0.5 >4 0.5 8 1 4 2	>2 0.5 >4 >4 1 1 4 8 >4 2 0.12 >2 0.5 >4 1 1 8 8 8 4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 - 59.4 100.0 17.2 14.5 98.5 88.3 84.4 45.8	0.8 6.6 	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin MDR MRCONS (883) Oritavancin Clindamycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 4 \$0.25 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 4	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 2) 0.06 \$0.25 0.5 >4 2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	>2 0.5 >4 >4 1 4 8 8 4 2 0.12 >2 0.5 >4 1 8 8 9 4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 7.2 14.5 88.3 84.4 45.8 100.0	0.8 6.6 -0.0 2.5 -0.0 -1.1 -0.0 2.3 -1.7 3.1 -0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 - 82.8 83.2 1.5 0.0 12.6 54.2 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8 100.0	0.4 6.6 - 9.5 22.4 - 0.0 2.3 - 13.4 23.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Lowofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin MDR MRCONS (883) Oritavancin Clindamycin Daptomycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 8 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 2 \$0.5 -> 8 \$0.5 -> 2 \$0.5 -> 3 \$0.5 -> 3	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 0.5 8 1 4 2	>2 0.5 >4 >4 1 4 8 8 4 2 0.12 >2 0.5 >4 1 1 8 8 8 8 4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 	0.8 6.6 -0 0.0 2.5 -0.0 -1.1 -0.0 2.3 -11.7 3.1 -0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 54.8 100.0 17.2 14.5 98.5 0.0 65.6 45.8 100.0	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4 23.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin MDR MRCONS (883) Oritavancin Clindamycin Daptomycin Erythromycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 4 \$0.12 - 2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 4 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 8	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 >4 2) 0.05 >4 4 2	>2 0.5 >4 >4 >4 1 4 8 8 4 2 0.12 >2 0.5 >4 1 8 8 4 2 0.5 >4 2 0.5 >4 2 0.5 >4 4 2	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 17.2 14.5 98.5 88.3 84.4 45.8 100.0	0.8 6.6 -0.0 2.5 -0.0 -0.0 -1.1 -0.0 2.3 -11.7 3.1 -0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 - 82.8 83.2 1.5 0.0 12.6 54.2 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 17.2 14.5 98.5 0.0 65.6 45.8 100.0	0.4 6.6 - 9.5 22.4 - 0.0 2.3 - 13.4 23.3 -	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Clindamycin Daptomycin Levofloxacin Linezolid Teicoplanin-resistant Toritavancin Clindamycin Daptomycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin MDR MRCONS (883) Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid TMP-SMX Vancomycin	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.5 -> 4 \$0.5 -> 4 \$0.12 - 2 \$0.008 - 0.25 \$0.25 -> 2 0.12 - 1 \$0.25 -> 8 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 8 \$0.5 -> 4 \$0.5 -> 8 \$0.5 -> 8	\$0.25 0.25 >4 4 0.5 \$2 1 4 2) 0.06 \$0.25 0.5 >4 0.5 8 1 4 2	>2 0.5 >4 >4 >4 1 4 >8 >4 2 0.12 >2 0.5 >4 1 1 4 2 0.12 >2 0.5 >4 2 0.5 >4 2 0.5 >4 2 0.5 >4 1 2 0.6 >2 0.5 >4 >4 2 0.6 >2 >4 >4 >4 >4 >8 >9 >9 >9 >9 >9 9 9 9	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 17.2 14.5 98.5 88.3 84.4 45.8 100.0	0.8 6.6 -0 0.0 2.5 -0.0 -1.1 -0.0 2.3 -11.7 3.1 -0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 82.8 83.2 1.5 0.0 12.6 54.2 0.0	99.9 99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 17.2 14.5 98.5 0.0 65.6 45.8 100.0 100.0	0.4 6.6 - 9.5 22.4 - 4.6 - 0.0 2.3 - 13.4 23.3	
Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Teicoplanin-resistant Oritavancin Clindamycin Daptomycin Erythromycin Levofloxacin Linezolid Teicoplanin Tetracycline TMP-SMX Vancomycin Tetracycline TMP-SMX Vancomycin Tetracycline TMP-SMX Tetracycline Tetracycline TMP-SMX Tetracycline	\$0.25 -> 2 \$0.06 - 2 \$0.25 -> 4 \$0.5 -> 4 \$0.12 -> 8 \$2 - 4 \$0.12 -> 8 \$0.5 -> 4 \$0.12 -2 WRCONS (262 \$0.008 - 0.25 \$0.25 -> 4 \$0.5 -> 4	\$0.25 0.25 0.25 >4 4 0.5 ≤2 1 4 2) 0.06 ≤0.25 0.5 >4 >4 0.5 8 1 4 2 0.5 >4 0.5 >5 >4 2 0.5 >4 0.5 0.5 >4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	>2 0.5 >4 >4 >4 1 1 4 8 8 4 2 0.12 >2 0.5 >4 1 8 8 8 4 2 0.5 >4 1 1 8 8 9 4 1 1 8 8 8 1 1 1 8 8 8 1 8 1 8 1 8 1 8	99.9 23.5 24.3 99.5 100.0 81.9 49.5 100.0 17.2 14.5 98.5 88.3 84.4 45.8 100.0	0.8 6.6 -0.0 2.5 -0.0 -1.1 -0.0 2.3 -1.7 3.1 -0.0	75.7 69.2 0.5 0.0 15.6 50.5 0.0 39.5 - 82.8 83.2 1.5 0.0 12.6 54.2 0.0	99.9 23.7 24.3 99.5 100.0 70.1 49.5 100.0 17.2 14.5 98.5 0.0 65.6 45.8 100.0 7.2 2.9 98.8	0.4 6.6 - 9.5 22.4 - 0.0 2.3 - 13.4 23.3 -	
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a. MRSA = methicillin-resistant *S. aureus*; TMP-SMX = trimethoprim-sulfamethoxazole; MRCoNS = methicillin-resistant coagulase-negative sta resistance to at least three other classes of drugs (except for daptomycin; non-susceptible [MIC >1 mg/L] phenotypes were included) in addit b. Breakpoint criteria for oritavancin according to the CLSI (M100-S26, 2016) and EUCAST (2016), as available. "-" = breakpoint not available.

Conclusions

- Oritavancin inhibited 99.7% (4,628/4,643) of all MRSA and MRCoNS at the susceptible breakpoint for *S. aureus* (≤0.12 mg/L) (Table 1). In addition, oritavancin was consistently more potent than the tested comparator agents.
- Oritavancin demonstrated potent in vitro activity against this large collection of MRSA and MRCoNS, including MDR isolates and those displaying decreased susceptibility to clinically available agents, from Europe and adjacent regions.

Disclosures

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