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In vitro Activity of Omadacycline and Comparators against Staphylococci, Streptococci, and Enterococci (including resistant organism subsets) from Patients in European Medical Centres during 2016: Results from the SENTRY Antimicrobial Surveillance Program

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REVISED ABSTRACT

Background: Omadacycline is a broad-spectrum aminomethylcycline antibacterial in late-stage clinical development for the treatment of acute bacterial skin and skin structure infections (ABSSSI) and community-acquired bacterial pneumonia (CABP). Omadacycline has demonstrated potent in vitro activity against gram-positive and -negative bacterial pathogens commonly associated with skin and skin structure infections (SSSI) and respiratory tract infections (RTI). In addition, omadacycline remains highly active against isolates expressing common tetracycline-, penicillin-, fluoroquinolone-, and macrolide-resistance mechanisms. The *in vitro* susceptibility results for omadacycline and comparator agents tested against gram-positive bacterial clinical isolates collected from patients in European medical centres participating in the SENTRY surveillance program during 2016 are presented.

Methods: A total of 4,499 clinically significant gram-positive isolates that include 2,572 staphylococci, 1,355 streptococci, and 572 enterococci representing multiple infection types were collected during 2016 and included only one isolate/patient/infection episode. A central monitoring laboratory confirmed isolate identifications using standard bacteriologic algorithms, matrix-assisted laser desorption/ionization-time of flight mass spectrometry, and/or molecular characterization. Susceptibility testing was performed according to reference (CLSI) broth microdilution methodology, and results were interpreted per EUCAST breakpoints.

Results: Omadacycline demonstrated potent *in vitro* activity against Staphylococcus aureus (SA; n=2,165) with MIC_{50/90} values of 0.12/0.25 mg/L. Overall, methicillin resistance in SA (MRSA) was 23.9%. Omadacycline (MIC_{50/90} 0.12/0.25 mg/L) and tigecycline (MIC_{50/90} 0.12/0.12 mg/L; 100.0% susceptible) were the most potent antimicrobials tested against MRSA whereas susceptibility to clindamycin (76.4%), erythromycin (41.1%), levofloxacin (30.1%), and tetracycline (81.1%) was reduced. Omadacycline was also highly active against coagulase-negative staphylococci (CoNS, n=407; MIC_{50/90} 0.12/0.5 mg/L) that included methicillin-resistant strains (n=275; MIC_{50/90} 0.12/0.5 mg/L) in which susceptibility to clindamycin (65.8%), erythromycin (18.9%), levofloxacin (32.1%), and tetracycline (73.1%) was also reduced.

Streptococci including S. pneumoniae (n=709; MIC_{50/90} 0.06/0.12 mg/L), β-haemolytic streptococci (n=425; MIC_{50/90} 0.06/0.12 mg/L), and viridans group streptococci (n=221; MIC_{50/90} 0.06/0.12 mg/L) were inhibited by low levels of omadacycline. Penicillin resistance in S. pneumoniae (PRSP) was 11.1%. All PRSP isolates were inhibited by ≤0.12 mg/L of omadacycline whereas resistance to ceftriaxone (7.7%), erythromycin (71.8%), and tetracycline (65.4%) was high. All β-haemolytic streptococci were susceptible to tigecycline, penicillin, linezolid, daptomycin, and vancomycin; however, resistance to levofloxacin (98.8% susceptible), erythromycin (78.9% susceptible), clindamycin (88.7% susceptible), and tetracycline (58.3% susceptible) occurred.

Omadacycline exhibited potent in vitro activity against both Enterococcus faecalis (n=349; MIC_{50/90} 0.12/0.25 mg/L) and *E. faecium* (n=223; MIC_{50/90} 0.06/0.12 mg/L) that included vancomycin-resistant isolates. Vancomycin resistance rates were 0.0% and 19.7% against *E. faecalis* and *E. faecium*, respectively.

Conclusions: Omadacycline demonstrated potent *in vitro* antibacterial activity against gram-positive bacterial pathogens commonly associated with SSSI and RTI infections, including S. aureus (including MRSA), S. pneumoniae (including PRSP), β-haemolytic streptococci, and enterococci (including vancomycinresistant *E. faecium* isolates). These data support further omadacycline clinical evaluation studies, especially where these resistant pathogens are likely to occur.

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INTRODUCTION

Omadacycline is a broad-spectrum aminomethylcycline protein synthesis inhibitor in late-stage clinical development (oral and intravenous formulations) for the treatment of acute bacterial skin and skin structure infections (ABSSSI) and community-acquired bacterial pneumonia (CABP)

The spectrum of activity of omadacycline includes a broad range of grampositive (staphylococci, streptococci, and enterococci) and gram-negative bacterial pathogens commonly associated with ABSSSI and CABP

Omadacycline is highly active against bacterial clinical isolates expressing common tetracycline-, penicillin/oxacillin-, fluoroquinolone-, and macrolideresistance mechanisms that include Staphylococcus aureus, coagulasenegative staphylococci (CoNS), enterococci, and streptococci (Streptococcus pneumoniae, viridans group, and β -haemolytic streptococci)

The *in vitro* susceptibility results for omadacycline and comparator agents against 4,499 gram-positive bacterial clinical isolates collected from patients in European medical centres participating in a global surveillance program during 2016 are

MATERIALS AND METHODS

A total of 4,499 (nonduplicate) gram-positive bacterial isolates were collected from patients with multiple infection types in 38 medical centres in 18 European countries and Israel during 2016 and included 2,165 S. aureus, 407 CoNS, 425 β-haemolytic streptococci, 221 viridans group streptococci, 349 E. faecalis, and 223 E. faecium. Only one isolate per patient/infection episode

Bacterial isolates were initially identified by the submitting laboratories and confirmed by JMI Laboratories using a matrix-assisted laser desorption/ ionization-time of flight mass spectrometry (Bruker Daltonics, Bremen,

Susceptibility testing was performed according to CLSI (M07-A10, 2015) reference broth microdilution methodology and results were interpreted using EUCAST (2017) breakpoint interpretive criteria. CLSI quality control (QC) reference strains (M100-S27, 2017) were tested concurrently and included S. aureus ATCC 29213, Enterococcus faecalis ATCC 29212, Escherichia coli ATCC 25922 and ATCC 35218, Klebsiella pneumoniae ATCC 700603, and Pseudomonas aeruginosa ATCC 27853

RESULTS

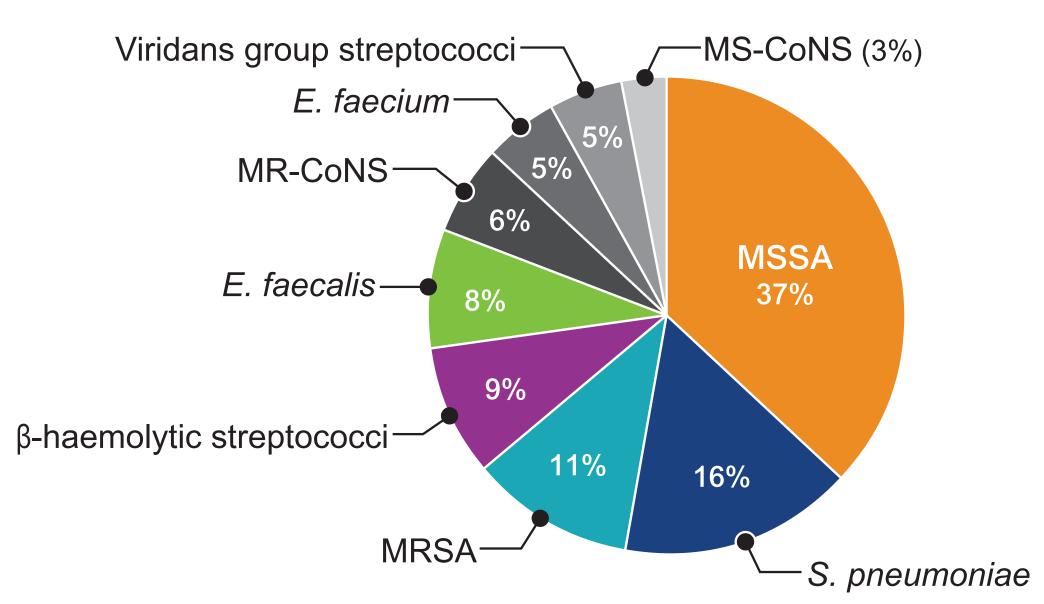
Cumulative percent inhibition data for omadacycline against staphylococci, streptococci, and enterococci including the percentage of 2016 European gram-positive surveillance isolates by organism group are presented in Table 1 and Figure 1, respectively

Omadacycline demonstrated potent in vitro activity against S. aureus isolates (MIC_{50/90} 0.12/0.25 mg/L) and retained a high level of activity against isolates displaying tetracycline (doxycycline and tetracycline), fluoroquinolone (levofloxacin), macrolide (erythromycin), lincosamide (clindamycin), and/or oxacillin resistance phenotypes. Corresponding doxycycline, tetracycline, levofloxacin, erythromycin, clindamycin, and oxacillin resistance rates were 2.5%, 7.6%, 19.9%, 24.2%, 6.6%, and 23.9%, respectively (Table 2) Against MRSA, omadacycline (MIC_{on} 0.25 mg/L; highest MIC 2 mg/L) was comparable in activity to tigecycline (MIC₉₀0.12 mg/L, highest MIC 0.5 mg/L) and \geq 8-fold more potent than doxycycline and tetracycline (MIC₉₀, 2 and >8 mg/L, respectively; Table 2)

Table 1 Antimicrobial activity of omadacycline against 4,499 staphylococci, streptococci, and enterococci from patients in European medical centres during 2016

Organism / organism group	No. of isolates at MIC (mg/L), cumulative %ª											MIC		
Organism / organism group	≤0.015	0.03	0.06	0.12	0.25	0.5	1	2	4	8	16	>	MIC ₅₀	MIC ₉₀
Staphylococcus aureus (2,165)	1 <0.1	24 1.2	442 21.6	<u>1,181</u> <u>76.1</u>	481 98.3	26 99.5	6 99.8	4 100.0					0.12	0.25
MSSA (1,647)	1 0.1	19 1.2	379 24.2	<u>897</u> 78.7	339 99.3	12 100.0							0.12	0.25
MRSA (518)	0 0.0	5 1.0	63 13.1	<u>284</u> <u>68.0</u>	142 95.4	14 98.1	6 99.2	4 100.0					0.12	0.25
Coagulase-negative staphylococci (407)	4 1.0	51 13.5	109 40.3	<u>89</u> 62.2	59 76.7	66 92.9	28 99.8	1 100.0					0.12	0.5
MS-CoNS (132)	4 3.0	25 22.0	<u>49</u> 59.1	28 80.3	9 87.1	12 96.2	5 100.0						0.06	0.5
MR-CoNS (275)	0 0.0	26 9.5	60 31.3	<u>61</u> 53.5	50 71.6	54 91.3	23 99.6	1 100.0					0.12	0.5
Streptococcus pneumoniae (709)	8 1.1	135 20.2	<u>487</u> <u>88.9</u>	77 99.7	0 99.7	1 99.9	1 100.0						0.06	0.12
Penicillin-susceptible <i>Streptococcus pneumoniae</i> (≤0.06) (510)	7 1.4	110 22.9	<u>349</u> 91.4	43 99.8	0 99.8	1 100.0							0.06	0.06
Penicillin-intermediate <i>Streptococcus pneumoniae</i> (≥0.12 and ≤1) (121)	1 0.8	19 16.5	<u>84</u> 86.0	16 99.2	0 99.2	0 99.2	1 100.0						0.06	0.12
Penicillin-resistant <i>Streptococcus pneumoniae</i> (≥2) (78)	0 0.0	6 7.7	<u>54</u> 76.9	18 100.0									0.06	0.12
Viridans group streptococci (221)	8 3.6	50 26.2	<u>112</u> 76.9	36 93.2	12 98.6	3 100.0							0.06	0.12
β-haemolytic streptococci (425)	0 0.0	8 1.9	<u>240</u> 58.4	142 91.8	33 99.5	2 100.0							0.06	0.12
Streptococcus pyogenes (201)	0 0.0	4 2.0	<u>163</u> <u>83.1</u>	31 98.5	3 100.0								0.06	0.12
Streptococcus agalactiae (126)	0 0.0	4 3.2	35 31.0	<u>71</u> 87.3	15 99.2	1 100.0							0.12	0.25
Other β-haemolytic streptococci (98)		0 0.0	42 42.9	<u>40</u> <u>83.7</u>	15 99.0	1 100.0							0.12	0.25
Enterococcus faecalis (349)	0 0.0	10 2.9	94 29.8	<u>145</u> 71.3	87 96.3	12 99.7	1 100.0						0.12	0.25
Enterococcus faecium (223)	1 0.4	17 8.1	<u>123</u> 63.2	74 96.4	4 98.2	0 98.2	3 99.6	0 99.6	0 99.6	1 100.0			0.06	0.12
Vancomycin-susceptible <i>Enterococcus faecium</i> (179)	1 0.6	13 7.8	<u>100</u> 63.7	59 96.6	4 98.9	0 98.9	2 100.0						0.06	0.12
Vancomycin-nonsusceptible <i>Enterococcus</i> faecium (44)	0 0.0	4 9.1	<u>23</u> <u>61.4</u>	15 95.5	0 95.5	0 95.5	1 97.7	0 97.7	0 97.7	1 100.0			0.06	0.12

Figure 1 Incidence of gram-positive pathogens from the omadacycline 2016 European surveillance program



- Omadacycline and tigecycline were equally active against CoNS and
- Doxycycline, tetracycline, levofloxacin, erythromycin, and clindamycin resistance rates in CoNS were 7.9%, 17.4%, 48.3%, 61.4%, and 23.1%, respectively, and increased to 10.5%, 22.2%, 67.9%, 79.6%, and 33.1%, respectively, in MR-CoNS (Table 2)
- S. pneumoniae isolates, including penicillin-resistant strains, were highly susceptible to omadacycline (MIC_{50/00}, 0.06/0.12 mg/L) and tigecycline (MIC_{50/90}, 0.03/0.06 mg/L), whereas 20.3% of *S. pneumoniae* isolates were resistant to tetracycline (MIC_{50/90}, $\leq 0.25/>8$ mg/L; Table 2)
- Viridans group streptococci were inhibited by low levels of omadacycline (MIC_{50/00}, 0.06/0.12 mg/L) and tigecycline (MIC_{50/90}, 0.03/0.06 mg/L). Tetracycline (MIC_{50/90}, 0.5/>8 mg/L), ceftriaxone (MIC_{50/90}, 0.12/2 mg/L; 15.4% resistant), and clindamycin (MIC_{50/90}, ≤0.25/2 mg/L; 10.9% resistant) were considerably less active (Table 2)

MR-CoNS isolates with MIC_{on} values of 0.5 mg/L and 0.25 mg/L, respectively (Table 2). Doxycycline (MIC₉₀, 4 mg/L) and tetracycline (MIC₉₀, >8 mg/L) were 8- and \geq 16-fold less active than omadacycline against MR-CoNS (Table 2)

- Omadacycline (MIC_{50/90}, 0.06/0.12 mg/L) and tigecycline (MIC_{50/90}, 0.06/0.06 mg/L) were also very active against β -haemolytic streptococci (Streptococcus agalactiae, S. dysgalactiae, and S. pyogenes). These isolates were very susceptible (100.0%) to all agents tested except for tetracycline (58.3%) susceptible), clindamycin (88.7% susceptible), erythromycin (78.9% susceptible) and levofloxacin (98.8% susceptible; Table 2)
- Omadacycline was two-fold more active against *E. faecium* (MIC_{50/90} 0.06/0.12 mg/L) compared to *E. faecalis* (MIC_{50/90} 0.12/0.25 mg/L), and its activity was unchanged against *E. faecium* isolates displaying resistance to vancomycin (Tables 1 and 2)

Table 2 In vitro activity of omadacycline and comparator antimicrobials against staphylococci, streptococci, and enterococci from patients in European medical centres during 2016

Organism (no. tested) antimicrobial agent	MIC ₅₀	MIC ₉₀	Range	%S	EUCAST %I
S. aureus (2,165)				/00	701
Omadacycline	0.12	0.25	≤0.015 – 2	_	
•					
Doxycycline	≤0.06	0.25	≤0.06 – >8	94.9	2.6
Tetracycline	≤0.5	≤0.5	≤0.5 – >8	92.3	0.1
Tigecycline	0.06	0.12	≤0.015 – 0.5	100.0	
Oxacillin	0.5	>2	≤0.25 - >2	76.1	
Levofloxacin	0.25	>4	≤0.03 – >4	80.1	
Erythromycin	0.25	>8	≤0.06 – >8	74.5	1.4
Clindamycin	≤0.25	≤0.25	≤0.25 - >2	93.3	<0.1
Linezolid	1	2	≤0.12 – 2	100.0	
Daptomycin	0.5	0.5	≤0.12 – 1	100.0	
Vancomycin	0.5	1	0.25 – 2	100.0	
MRSA (518)					
Omadacycline	0.12	0.25	0.03 – 2		
•					
Doxycycline	≤0.06	2	≤0.06 – >8	87.3	4.4
Tetracycline	≤0.5	>8	≤0.5 – >8	81.1	0.2
Tigecycline	0.12	0.12	0.03 - 0.5	100.0	
Levofloxacin	>4	>4	0.12 ->4	30.1	
	>8	>8	≤0.06 – >8	41.1	1.5
Erythromycin					
Clindamycin	≤0.25	>2	≤0.25 – >2	76.4	0.0
Linezolid	1	1	0.25 – 2	100.0	
Daptomycin	0.5	0.5	≤0.12 – 1	100.0	
Vancomycin	0.5	1	0.25 – 2	100.0	
•	0.0	I	0.25 - 2	100.0	
CoNS⁵ (407)					
Omadacycline	0.12	0.5	≤0.015 – 2		
Doxycycline	0.12	2	≤0.06 ->8	88.2	3.9
Tetracycline	≤0.5	>8	≤0.5 – >8	78.6	3.9
Tigecycline	0.06	0.25	≤0.015 – 0.5	100.0	010
• •					
Oxacillin	>2	>2	≤0.25 – >2	34.9	
Levofloxacin	0.5	>4	0.06 ->4	51.7	
Erythromycin	>8	>8	≤0.06 – >8	37.6	1.0
Clindamycin	≤0.25	>2	≤0.25 – >2	75.9	1.0
					1.0
Linezolid	0.5	1	0.25 ->8	99.8	
Daptomycin	0.5	0.5	≤0.12 – 2	99.8	
Vancomycin	1	2	≤0.12 – 4	100.0	
MR-CoNS (275)					
	0.12	0.5	0.03 – 2		
Omadacycline				—	
Doxycycline	0.25	4	≤0.06 – >8	85.1	4.4
Tetracycline	≤0.5	>8	≤0.5 – >8	73.1	4.7
Tigecycline	0.12	0.25	≤0.015 – 0.5	100.0	
Levofloxacin	4	>4	0.06 ->4	32.1	
					4.5
Erythromycin	>8	>8	≤0.06 – >8	18.9	1.5
Clindamycin	≤0.25	>2	≤0.25 – >2	65.8	1.1
Linezolid	0.5	1	0.25 ->8	99.6	
Daptomycin	0.5	1	≤0.12 – 2	99.6	
		2	0.25 – 4	100.0	
Vancomycin	1	2	0.25 – 4	100.0	
S. pneumoniae (709)					
Omadacycline	0.06	0.12	≤0.015 – 1	—	—
Tetracycline	≤0.25	>8	≤0.25 – >8	79.3	0.4
Tigecycline	0.03	0.06	0.015 – 0.25	_	
• •				74.0	
Penicillin	0.015	2	≤0.004 ->8	71.9	
				71.9	22.6
Ceftriaxone	0.03	1	≤0.015 - >2	87.7	11.4
Levofloxacin	1	2	0.25 ->4	97.9	
Azithromycin	0.06	>32	0.008 -> 32	77.9	0.1
•					
Erythromycin	0.03	>32	≤0.015 ->32	78.4	0.3
Clindamycin	≤0.25	>2	≤0.25 – >2	84.5	
Linezolid	1	2	0.25 – 2	100.0	0.0
S. pneumoniae PRSP (78)					
Omadacycline	0.06	0.12	0.03 - 0.12		_
•				24.6	0.0
Tetracycline	>8	>8	≤0.25 - >8	34.6	0.0
Tigecycline	0.06	0.06	0.03 - 0.06		
Penicillin	2	4	2 -> 8	0.0	
				0.0	50.0
Ceftriaxone	1	2	0.5 - >2	6.4	85.9
					05.9
Levofloxacin	1	1	0.5 - 4	98.7	
Azithromycin	>32	>32	0.03 -> 32	28.2	0.0
Erythromycin	>32	>32	0.03 -> 32	28.2	0.0
Clindamycin	>2	>2	≤0.25 – >2	44.9	
Linezolid			0.25 - 2	100.0	0.0
	1	1	0.23 - 2	100.0	0.0
Viridans group streptococci					
Omadacycline	0.06	0.12	≤0.015 – 0.5	—	—
Tetracycline	0.5	>8	≤0.25 – >8	_	
Tigecycline	0.03	0.06	≤0.008 - 0.25	_	
Penicillin	0.06	2	0.008 ->8	79.2	13.1
Ceftriaxone	0.12	2	≤0.015 - >2	84.6	
Levofloxacin	1	2	0.25 ->4		
			≤0.015 ->32		
Erythromycin	0.03	8		—	_
Clindamycin	≤0.25	2	≤0.25 – >2	89.1	
•	4	1	0.12 ->4	_	
Linezolid	1	· ·			
Linezolid	·	1		_	
•	0.25	1 0.5	≤0.06 – 1 0.25 – 1	 100.0	—

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%R

2.5 0.0 19.9 1 6.6 0.0 8.3 0.0 57.3 0.0 0.0 _ 17.4 65.1 61.4 0.2 0.2 0.0 _ 22.2 67.9 33.1 0.4 20.3 28.1° 4 0.8 22.0 15.5 65.4 100.0^c 9 7.7 71.8 55.1 _ 1 7.7 - ____ 10.9 _

Organism (no. tested)	MIC	MIC	Pango	EUCAST [®]					
antimicrobial agent	MIC ₅₀	MIC ₉₀	Range	%S	%I	%R			
β-haemolytic streptococci ^f (42	25)								
Omadacycline	0.06	0.12	0.03 – 0.5	_	_	_			
Tetracycline	0.5	>8	≤0.25 – >8	58.3	0.2	41.5			
Tigecycline	0.06	0.06	0.015 – 0.25	100.0	0.0	0.0			
Penicillin	0.015	0.06	≤0.004 – 0.06	100.0		0.0			
Levofloxacin	0.5	1	0.25 ->4	98.8		1.2			
Erythromycin	0.03	8	≤0.015 – >32	78.9	1.2	19.9			
Clindamycin	≤0.25	>2	≤0.25 – >2	88.7		11.3			
Linezolid	1	1	0.5 – 2	100.0	0.0	0.0			
Daptomycin	≤0.06	0.25	≤0.06 – 1	100.0		0.0			
Vancomycin	0.25	0.5	0.12 – 0.5	100.0		0.0			
E. faecalis (349)									
Omadacycline	0.12	0.25	0.03 – 1	_	_	_			
Tetracycline	>16	>16	≤0.12 – >16	—	_				
Tigecycline	0.06	0.12	≤0.015 – 0.12	100.0	0.0	0.0			
Levofloxacin	1	>4	0.25 ->4	73.1		26.9 ^g			
Linezolid	1	2	0.25 – 2	100.0		0.0			
Ampicillin	1	2	≤0.5 – 4	100.0	0.0	0.0			
Vancomycin	1	2	0.5 - 4	100.0		0.0			
E. faecium (223)									
Omadacycline	0.06	0.12	≤0.015 – 8	_	_	_			
Tetracycline	0.5	>16	≤0.12 – >16	—	_				
Tigecycline	0.03	0.06	≤0.015 – 1	99.6	0.0	0.4			
Levofloxacin	>4	>4	1 – >4	7.6		92.4 ^g			
Linezolid	1	2	0.25 – 8	99.6		0.4			
Ampicillin	>16	>16	≤0.5 – >16	6.7	0.9	92.4			
Vancomycin	0.5	>16	0.25 - >16	80.3		19.7			
Criteria as published by EUC	120171								

Drganisms include: Staphylococcus capitis (21), S. caprae (6), S. cohnii (3), S. epidermidis (221), S. haemolyticus (64), S. hominis (36), S. lugdunensis (32), , saprophyticus (12), S. simulans (3), S. warneri (9

Jsing nonmeningitis breakpoints

Drganisms include: Streptococcus anginosus (44), S. anginosus group (10), S. australis (2), S. bovis group (1), S. constellatus (10), S. cristatus (2), S. equinus (1), S. gallolyticus (18), S. gordonii (2), S. infantis (1), S. intermedius (1), S. lutetiensis (1), S. mitis group (83), S. mitis/oralis (2), S. mutans (2), S. parasanguinis (13), S. salivarius (2), S. salivarius group (4), S. salivarius/vestibularis (7), S. sanguinis (9), S. vestibularis (6))rganisms include: Streptococcus agalactiae (126), S. canis (2), S. dvsgalactiae (96), S. pvogenes (201

CONCLUSIONS

- Omadacycline was highly active against S. aureus (MIC_{50/90} 0.12/0.25 mg/L) and CoNS (MIC_{50/90} 0.12/0.5 mg/L) that included MRSA and MR-CoNS isolates from Europe as well as strains displaying resistance to tetracyclines (doxycycline and/or tetracycline), fluoroquinolones (levofloxacin), macrolides (erythromycin), and lincosamides (clindamycin)
- Streptococci, including S. pneumoniae, viridans group streptococci, and β-haemolytic streptococci, were inhibited by low levels of omadacycline (MIC_{50/90} values of 0.06/0.12 mg/L)
- Omadacycline remained highly active against tetracycline-resistant S. *pneumoniae* (20.3% tetracycline-resistant) and β-haemolytic streptococci (41.5% tetracycline-resistant) isolates
- Omadacycline exhibited potent in vitro activity against E. faecalis (MIC 50/90 0.12/0.25 mg/L) and vancomycin-susceptible and -resistant isolates of E. faecium (MIC_{50/90} 0.06/0.12 mg/L). Tetracycline demonstrated little utility against *E. faecalis* and *E. faecium* isolates (MIC₉₀ values >16 mg/L)
- Results of this surveillance study support the continued development of omadacycline in infections where resistant isolates of staphylococci, streptococci, and enterococci are likely to be found, including ABSSSI and CABP

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REFERENCES

Clinical and Laboratory Standards Institute (2015). M07-A10. Methods for dilution antimicrobial susceptibility tests for bacteria that grow aerobically; Approved standard – tenth edition. Wayne, PA: CLSI.

Clinical and Laboratory Standards Institute (2017). M100-S27. Performance standards for antimicrobial susceptibility testing: 27th informational supplement. Wayne, PA: CLSI.

EUCAST (2017). Breakpoint tables for interpretation of MICs and zone diameters. Version 7.0, January 2017. Available at http://www.eucast.org/clinical_breakpoints/. Accessed January 2017