Table 6. (Continued)

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Antimicrobial		MIC (μg/mL) Interpretive Criteria			
Class	Antimicrobial Agent	s	1	R	Comments
TETRACYCLINES					
	Doxycycline	≤4	8	≥16	
	Tetracycline	≤4	8	≥16	
LINCOSAMIDES					
	Clindamycin	≤0.5	1–2	≥4	
FOLATE PATHWAY INHIBITORS					
	Trimethoprim-sulfamethoxazole	≤2/38	_	≥4/76	
ANSAMYCINS					
	Rifampin	≤1	2	≥4	(3) Rx: Rifampin should not be used alone for antimicrobial therapy.
STREPTOGRAMINS					
	Quinupristin-dalfopristin	≤1	2	≥4	
OXAZOLIDINONES					
	Linezolid	≤2	_	_	See comment (2).

Abbreviations: ATCC®, American Type Culture Collection; CAMHB-LHB, cation-adjusted Mueller-Hinton broth supplemented with lysed horse blood; I, intermediate; MIC, minimal inhibitory concentration; QC, quality control; R, resistant; S, susceptible.

## Footnote

a. Coryneform genera include: Arcanobacterium, Arthrobacter, Brevibacterium, Cellulomonas, Cellulosimicrobium, Dermabacter, Leifsonia, Microbacterium, Oerskovia, Rothia (excluding Rothia mucilaginosa; see Table 19), Trueperella, and Turicella.

## Supplemental Information

## Resistance:

Resistance to β-lactams, macrolides, and aminoglycosides, as well as quinolones or folate pathway inhibitors, has been reported in *Corynebacterium afermentans, Corynebacterium amycolatum, Corynebacterium aurimucosum, Corynebacterium auris, Corynebacterium coyleae, C. diphtheriae, Corynebacterium glucuronolyticum, Corynebacterium jeikeium, Corynebacterium propinquum, Corynebacterium pseudodiphtheriticum, Corynebacterium resistens, Corynebacterium striatum, Corynebacterium tuberculostearicum (which includes nearly all CDC group G-2 isolates), Corynebacterium urealyticum, and Corynebacterium ureicelerivorans. Resistance to erythromycin and clindamycin is nearly always attributable to the presence of the ermX or, occasionally, ermB gene.<sup>38</sup> Resistance to quinolones has been observed due to mutations in <i>gyrA*. Ophthalmic infections caused by *Corynebacterium macginleyi* are more difficult to treat with fluoroquinolone eye drops if a *gyrA* mutation is present.<sup>39</sup> Based on several recent reviews, all *Corynebacterium* remain susceptible to vancomycin, linezolid,<sup>40,41</sup> and tigecycline.<sup>40</sup> In addition, from among nearly 500 *Corynebacterium* strains, most were susceptible to daptomycin (99.6%) and quinupristin-dalfopristin (95.3%), with > 85% of isolates susceptible to rifampin, tetracycline, gentamicin, and meropenem (based on data collected by one member of the working group). A single daptomycin nonsusceptible *C. jeikeium* isolate has been reported.<sup>42</sup>

There are limited antimicrobial susceptibility and resistance mechanism data for other coryneform genera. In contrast to *Corynebacterium* spp., reduced susceptibility to daptomycin appears to be relatively common in other coryneform genera (based on data collected by one member of the working group). *Arcanobacterium haemolyticum* and *Trueperella* (formerly *Arcanobacterium*) *bernardiae* may be resistant to tetracycline.<sup>43,45</sup> *Arthrobacter* spp. have been reported to be resistant to aminoglycosides and quinolones.<sup>48</sup> *Brevibacterium* spp., particularly *Brevibacterium* casei and *Brevibacterium* otitidis, may demonstrate resistance to β-lactams and clindamycin.<sup>47</sup> *Dermabacter hominis* and *Turicella otitidis* may be macrolide and clindamycin resistant.<sup>47</sup> *Leifsonia aquatica* has been reported to have diminished vancomycin and penicillin susceptibility.<sup>48</sup> *Microbacterium resistens* and other *Microbacterium* spp. may be nonsusceptible to vancomycin.<sup>49</sup>