

Anaerobic Gram Positive Bacilli - other (LTR57853)

Edit Approved By: Dragan, Tatiana (09/22/2021)

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Organism	Anaerobic Gram Positive Bacilli – other					
	 Actinobaculum spp 	 Eggerthia spp 	 Paraeggerthella spp 			
	Actinotignum spp	• Eubacterium spp	Parascardovia spp			
	Alloscardovia spp	• Eggerthella spp	Propionimicrobium spp			
	 Anaerotruncus spp 	Faecalibacterium spp	 Pseudoramibacter spp 			
	• Atopobium spp.	 Flavonifractor spp 	Robinsoniella spp			
	(cocci/bacilli)	5 11				
	Bifidobacterium spp	 Filifactor spp 	• Roseburia spp			
	• Bulleidia spp	Gordonibacter spp	• Scardovia spp			
	Catabacterspp	 Mobiluncus spp 	Shuttleworthia spp			
	Coprococcus spp	 Mogibacterium spp 	• Slackia spp. (cocci/bacilli)			
	 Collinsella spp 	• Oribacterium spp	• Solobacterium spp			
	• Crvptobacterium spp	• Olsenella spp.	 Varibaculum spp 			
	gastrointestinal tracts. Although of low pathogenicity, they have been found in polymicrobial infections including wound infections, genitourinary tract infections (including intrauterine contraceptive related pelvic infections). They rarely are isolated in bacteremia but have been reported in endocarditis, pleuropulmonary infections, brain abscess/meningitis and peritonitis.					
Usual susceptibility pattern	These organisms are usually susceptible to penicillin, clindamycin, and carbapenems. Occasional strains are resistant to clindamycin. Susceptibility to metronidazole is variable and resistance has been described in <i>Actinobaculum/Actinotignum, Atopobium, Bifidobacterium, Eggerthella, Eubacterium</i> and <i>Mobiluncus spp</i> .					
Susceptibility method	 Etest method using Laked Blood Agar incubated anaerobically at 35°C for 4 72 hours, depending on growth characteristics. (Clindamycin – read at 48 hours) 					
	Note: Use 1.0 McFarland suspension in pre-reduced, enriched thioglycollate broth.					

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Susceptibility reporting

	CSF/ Brain	Blood	Sterile Body Site	Comments
Clindamycin			\checkmark	
Meropenem	\checkmark	2	2	2 nd line if pen I/R.
Metronidazole	~	\checkmark	\checkmark	See Special Considerations
Penicillin	\checkmark	\checkmark	\checkmark	If pen I/R see Special Considerations
Piperacillin/ tazobactam		2	2	2 nd line if pen I/R

Note:Consult microbiologist regarding the need for susceptibility testing.
Susceptibility testing is recommended if organism is sole isolate from sterile
body site. For other sites, or if isolated with other organisms, clinical
correlation and correlation with Gram stain is required. Generally,
susceptibility testing is not recommended if multiple organisms isolated.

At microbiologist's discretion, add comment:

"These organisms are usually susceptible to penicillin, clindamycin and carbapenems. Susceptibility to metronidazole is variable". (21337)

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Special considerations

<u>Penicillin:</u>	If penicillin I/R: Perform β-lactamase test. 				
	IF THEN				
	β-lactamase positive	Report penicillin R			
	Penicillin I/R and β-lactamase negative	 This may indicate an altered penicillin binding protein mechanism of resistance. Consult microbiologist If penicillin I/R and β-lactamase negative report pip/tazo as R. 			
Metronidazole:	Many non-spore-forming, gram-positive anaerobic rods are resistant to metronidazole.				
	Aerotolerant organisms should be reported as metronidazole resistant.				
	Efficient anaerobiasis must be achieved within 1-2 hours of incubation. Failure to do so may result in false resistance result.				

Interpretation For Etest, report actual MIC result. For interpretation (S, I, or R) report according to the nearest higher doubling dilution (Appendix 1).

Use **CLSI** interpretive document for **Anaerobes**.

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