

Antibiotic stewardship assists health care providers with the judicious and appropriate use of antibiotics for patient use. Appropriate clinical decision-making with regard to antibiotic use requires the clinician to evaluate the needs of the individual patient and provide the best treatment for that patient. At the same time, the clinician should consider what is best for the long-term sustainability of antibiotics as an effective means of patient care. This dual responsibility is at the core of “antibiotic stewardship.” ¹

The treatment of periodontitis first includes the mechanical non-surgical removal of the bacterial biofilm accompanied by home oral hygiene, which must be followed by the patient together with a recurrent professional therapy called "periodontal maintenance therapy" ²

MicroGenDX does not perform susceptibility testing on microbial samples. This table is provided as a general antibiotic and coverage guide based on available published data. ³

Complex			Antibiotic	Class	Coverage	Route of Administration	Dosing	Indications and Contraindications
X	X	X	Amoxicillin	Beta-Lactam	Beta-Lactam Negative Gram +, H. Flu	Oral	500mg tid; 100mg tid	See Prescribing information
		X	Amoxicillin/Clavulanate acid (Augmentin)	Beta-Lactam	Same as Amoxicillin plus Anaerobic Bacteria and beta-lactamase-producing bacteria.	Oral	500-875 tid	See Prescribing information
		X	Azithromycin	Macrolide	Gram +, Mycoplasma, Anaerobes, Prevotella, Porphyromonas	Oral	500mg qd X 3 days/Z-Pak	See Prescribing information
		X	Clindamycin (Cleocin)	Lincomycin	Gram + and anaerobes	Oral	300/800 tid	See Prescribing information
		X	Metronidazole (Flagyl; Elyzol)	Nitroimidazole	Anaerobes, Fusobacterium	Oral	500-750mg tid	See Prescribing information
		X	Penicillin V	Beta-Lactam	Gram +	Oral	250-500 qid	See Prescribing information
		X	Floroquinolone (Ciprofloxacin)	Quinolone	Gram +, Gram -; No Anaerobes	Oral	See Package insert	See Prescribing information
X	X	X	Doxycycline (Vibramycin)	Tetracycline	Same as Tetracycline	Oral 200mg Capsules	See Package insert	See Prescribing information

1. California Dental Association, December 2018 Vol 46, No. 12
2. Isola G. Antibiotics and Antimicrobials for Treatment of the Oral Microbiota: Myths and Facts in Research and Clinical Practice. *Antibiotics* (Basel). 2020 Feb 22;9(2):95. doi: 10.3390/antibiotics9020095. PMID: 32098288; PMCID: PMC7167861.
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