



## Valley Medical Laboratories Antibigram - 2020

Information in this antibiogram is derived from antimicrobial susceptibility testing performed by Valley Medical Laboratories from January 1, 2019 - December 31, 2019 as per the Clinical Laboratory Standards Institute (CLSI) document M39-A4. This is only a guide. Culture and susceptibility testing are required for accurate determination of etiology and antimicrobial susceptibility (especially in isolate groups of <30).

### Respiratory Tract Pathogens

ORGANISM	Number of isolates tested	ANTIBIOTIC (% susceptible)														
		Amoxicillin - Clavulanate	Ampicillin <sup>1</sup>	Ceftriaxone	Ceftazidime	Ciprofloxacin	Doxycycline	Erythromycin <sup>2</sup>	Levofloxacin	Meropenem	Penicillin (oral)	Piperacillin - Tazobactam	Tetracycline	Gentamicin	Tobramycin	TMP - SMX
<i>Pseudomonas aeruginosa</i>	60	R	R	R	98%	92%		R		100%	R	100%	R	96%	100%	R
<i>Haemophilus influenzae</i>	46	91%	78%	100%		99%					R		98%			70%
<i>Moraxella catarrhalis</i> <sup>3,4</sup>	25		R								R					
<i>Streptococcus pneumoniae</i> <sup>4</sup>	14	100%	100%				82%	77%	100%		91%					85%

**TMP-SMX** = trimethoprim-sulfamethoxazole

**R** - The organism is inherently resistant to the antibiotic indicated **OR** is not recommended due to poor clinical response and/or poor activity

<sup>1</sup> Results of ampicillin testing can be used to predict results for amoxicillin.

<sup>2</sup> Results of erythromycin testing can be used to predict results for azithromycin and clarithromycin.

<sup>3</sup> Susceptibility testing for *Moraxella catarrhalis* is not routinely performed. Most clinical isolates of *M. catarrhalis* are resistant to amoxicillin but are susceptible to amoxicillin-clavulanate, macrolides, trimethoprim-sulfamethoxazole, quinolones, cefuroxime, cefixime and ceftriaxone.

<sup>4</sup> Limited number of isolates - interpret results accordingly.

**GOOD CHOICE** if 90-100% of isolates are susceptible to the antibiotic indicated

**INTERMEDIATE CHOICE** if 51-89% of isolates are susceptible to the antibiotic indicated

**POOR CHOICE** if 0-50% of isolates are susceptible to the antibiotic indicated